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QUARTERLY REPORT
JULY - SEPTEMBER 1975
FOR
RIO BLANCO OIL SHALE PROJECT
AQUATIC BASELINE STUDIES

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LIMNETICS, INCORPORATED
DENVER, COLORADO

SUMBMITTED BY

ECOLOGICAL SCIENCES DIVISION

NUS CORPORATION
PITTSBURGH, PENNSYLVANIA
HOUSTON, TEXAS
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DENVER, COLORADO

DECEMBER, 1975

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PREFACE

On September 9, 1974, NUS Corporation was selected by the Rio Blanco Oil Shale Project (RBOSP) and Limnetics, Incorporated to perform the Aquatic Baseline Data Accumulation Program for Federal Oil Shale Tract C-a. On October 15, 1974, the aquatic sampling program was initiated; during March 1975, NUS submitted the initial quarterly data report covering the period October 1974 - January 1975. In March, June and September NUS submitted data reports for inclusion in RBOSP Progress Reports 2, 3 and 4, respectively. This data report is being submitted to Limnetics, Incorporated for inclusion in RBOSP Progress Report 5. This report includes data from three sampling periods: May - June, July - August and August - September 1975. The intent of this report is to present the data accumulated and analyzed since Progress Report 4. Only limited interpretation of the data has been incorporated.

2.40 Introduction

2.4.0 - Introduction

2.4 AQUATIC STUDIES

2.4.0 Introduction

2.4.0.1 Program Objectives

The Aquatic Baseline Data Accumulation Program is designed to incorporate the environmental studies described in the Federal Register, Volume 39, Number 230, Part 3, Oil Shale Lease Environmental Stipulations and in the Tract C-a Exploratory Plan of May 1974. The overall objective for the aquatic program is to characterize the existing aquatic ecological communities in the vicinity of Tract C-a. These baseline studies will inventory the aquatic habitats which may be affected by the development of oil shale on and around Tract C-a; and will allow determination of species composition, productivity, importance to man, and relative uniqueness of aquatic habitats and species. The aquatic baseline program includes the collection and analysis of field data and an on-going survey of pertinent literature. Since most of the streams on and near Tract C-a are intermittent and since most of the permanent aquatic ecosystems occur off tract, characterization of the permanent streams will be emphasized.

2.4.0.2 Sampling Locations

The sites of the various sampling stations have been chosen to represent the broadest possible range of aquatic habitats available. A total of 35 sampling stations has been established. Because emphasis in this aquatic program has been given to the permanent streams near Tract C-a, 18 of the stations are located on the White River and Yellow Creek (near its confluence with the White River). The locations of the aquatic sampling stations are depicted in Figure 2.4-1. The description of each of these locations is presented in detail in Section 2.4.1 of the RBOSP Progress Report 2 - Summary and will not be repeated here. For convenience and ease of discussion, the sampling stations will be treated according to their geographical locations in the following manner: stations near the headwater areas west of Tract C-a (Stations 1 - 5); stations on Tract C-a (stations 6 - 18); stations on Yellow Creek (Stations 19 - 22); and stations on the White River (Stations 23 - 35).

2.4.0.3 Schedule

The schedule of events for the RBOSP Aquatic Baseline Data Accumulation Program is presented in Table 2.4-1. The initial sampling was begun in October 1974 and will continue through August 1976. At each sampling location all physical, chemical, and biological samples are obtained on the same day. Appendix D-1-1 lists the dates on which samples were collected in July - August 1975 and Appendix D-1-2 lists the sampling

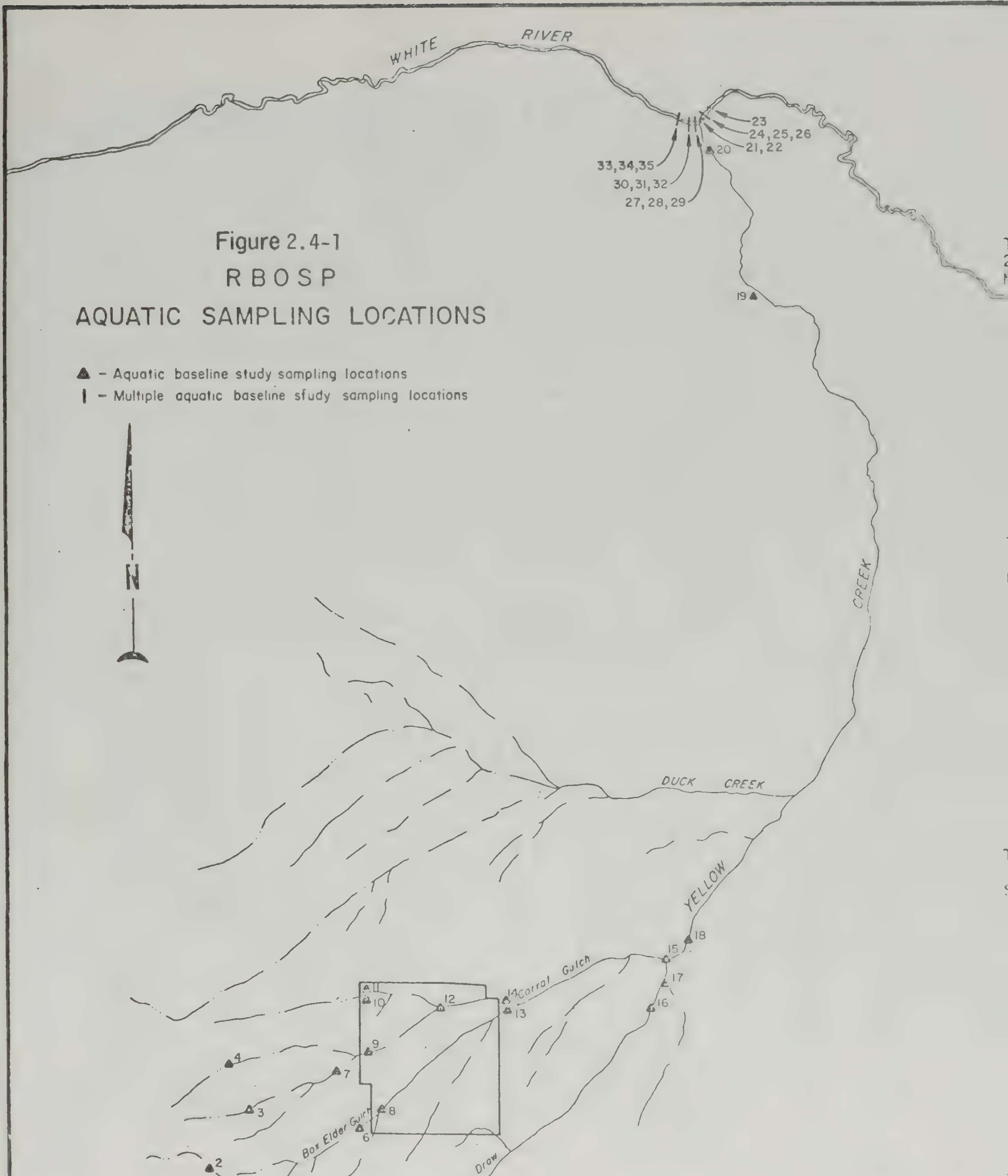

Figure 2.4-1
RBOSP
AQUATIC SAMPLING LOCATIONS

▲ - Aquatic baseline study sampling locations
| - Multiple aquatic baseline study sampling locations

WHITE RIVER
23
24,25,26
21,22
20
33,34,35
30,31,32
27,28,29
19
CREEK
N
DUCK CREEK
YELLOW
18
15
17
16
14 Corral Gulch
13
12
10
9
4
7
3
8
6
Box Elder Gulch
2
1
Stake Spring Draw
5
R 100 W
R 99 W
R 98 W
R 97 W

Table 2.4-1. Schedule for RBOSP Aquatic Baseline Data Accumulation Program

RIO BLANCO OIL SHALE PROJECT (GULF-STANDARD)	1975												1976											
Specification Task	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Start Date																								
Period of Performance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Start-up Time																								
Study Schedule																								
Field Studies																								
Physical	X			X		X	X		X	X		X				X		X	X		X			
Water Chemistry	X			X		X	X		X	X		X				X		X	X		X			
Plankton	X			X		X	X		X	X		X				X		X	X		X			
Periphyton	X			X		X	X		X	X		X				X		X	X		X			
Primary Prod.	X																							
Analysis						X	X		X	X						X		X	X		X			
Benthos				X		X	X		X	X		X				X		X	X		X			
Macrophytes	X			X		X	X		X	X		X				X		X	X		X			
Fish	X			X		X	X		X	X		X				X		X	X					
Rare and Endangered Species	X			X		X	X		X	X		X				X		X	X		X			
Spring and Seepages	X	X		X		X	X		X	X		X		X		X		X	X		X			
Miscellaneous Studies				X		X		X		X		X		X										
Lab Analysis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Statistical Analysis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Reports																								
Monthly	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Quarterly			X			X			X			X			X			X						
Annual																								
Draft Final																							X	
Comment Period																								X
Incorp. Comments																								X
Final Report																								X
Meetings																								
Bimonthly		X		X		X		X		X		X		X		X		X		X				

dates for the August - September sampling period. Samples were collected at 29 locations. (The number of sites sampled varies with the number of dry sites encountered.)

2.4.0.5 Report Motif

The presentation of results from the three sampling periods included in this report has been limited to a preliminary description of the data, in the case of the physical and chemical parameters, only a limited number of selected parameters are discussed. No formal data interpretations have been attempted in this report.

2.4.1 Physical Measurements and Water Chemistry

2.4.1.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.1.1 of Progress Report 3 for specific objectives.

2.4.1.2 Methods

Water Flow

No change in methods has occurred since Progress Report 3. See section 2.4.1.2 of Progress Reports 2 and 3 for specific methods used in measuring the physical characteristics of waters under study.

Water Chemistry

No change in methods has occurred since Progress Report 3. See Table 2.4-2 of this report and section 2.4.1.2 of Progress Reports 2 and 3 for specific methods used for water chemistry analysis.

2.4.1.3 Results

During the July - August 1975 sampling period, five sampling sites were dry; the dry sites included Stations 6, 10 - 12 and 16. During the August - September sampling period, the dry sites included Stations 6, 10, 11, 15, 16 and 18.

Detailed presentations of the physical and chemical data collected during the July - August sampling period are included in Appendices D-2-1 and D-3-1. Similar data collected during the August - September sampling period can be found in Appendices D-2-2 and D-3-2. A summary of selected parameters for the White River and Yellow Creek stations are presented below:

July - August

	White River		Yellow Creek	
	Min.	Max.	Min.	Max.
Specific conductance (μmhos)	625	-1250	2600	-3900
pH	8.1-	8.2	8.4-	8.7
Alkalinity, total ($CaCO_3$ mg/l)	185	- 486	650	-1451
Chloride (mg/l)	21	- 92	32	- 177
Sulfate (mg/l)	36	- 42	160	- 280
Dissolved solids (mg/l)	365	- 417	1920	-2580
Turbidity (JTU)	10	- 35	7	- 25
Dissolved oxygen (mg/l)	7.8-	8.7	8.1-	12.3
Temperature (°C)	18	- 21	16	- 22

2.4.1 Physical Measurements
Water Chemistry

August - September

	White River Min.	White River Max.	Yellow Creek Min.	Yellow Creek Max.
Specific conductance (μmhos)	775	2500	2800	4100
pH	8.2	8.6	8.2	8.7
Alkalinity, total ($CaCO_3$ mg/l)	206	422	748	1858
Chloride (mg/l)	29	44	29	169
Sulfate (mg/l)	46	59	135	297
Dissolved solids (mg/l)	485	822	1900	3500
Turbidity (JTU)	10	35	20	40
Dissolved oxygen (mg/l)	9.2	10.9	7.2	14.2
Temperature (°C)	15	18	16	25

The physical and chemical data collected from stations on the White River (Stations 23 - 35) and from those on Yellow Creek (Stations 19 - 22) are comparable during the two sampling periods. The high extremes of conductivity (3900 and 4100 μmhos) as indicated in the tables above occurred at Station 28 near the mouth of Yellow Creek. Other conductivity values in the White River were on the average less than 100 μmhos greater than the minimum value listed in the appendices. The data are generally within the ranges of concentration reported by the USGS (1971, 1972, 1973) and by Everhart and May (1973) (refer to Section 2.4.0 of Progress Report 2 for their findings).

Table 2.4 2. Water and sediment chemistry, Analytical Laboratory Methodology. RBOSP Aquatic Baseline Studies.

Parameter	Measurement Methodology[1]	Detection Limit (ppm)[2]	Sample Preservation
	WATER CHEMISTRY		
Alkalinity, total	Colorimetric	2	None required
Ammonia nitrogen	Electrode	0.10	$HgCl_2$
Calcium, dissolved	Atomic absorption	0.02	None required
Chloride, dissolved	Potentiometric	0.4	None required
Hardness, total	EDTA Titration	2	None required
Magnesium, dissolved	Atomic absorption	0.005	HCl
Kjeldahl nitrogen	Kjeldahl digestion	0.10	$HgCl_2$
Nitrate, dissolved	Brucine	0.2	$HgCl_2$
Nitrite, dissolved	Diazotization	0.01	$HgCl_2$
Phosphate, ortho (dissolved)	Ammonium molybdate - potassium antimonyl tartrate	0.01	$HgCl_2$
Phosphate, total	Same as orthophosphate	0.01	$HgCl_2$
Potassium, dissolved	Atomic absorption	0.1	HCl
Silica, dissolved	Molybdosilicate	0.005	HCl
Sodium, dissolved	Atomic absorption	0.005	HCl
Sulfate, dissolved	Gravimetric	3	Refrigeration
Carbon, dissolved organic	Beckman TOC Analyzer	2	HCl
Carbon, total organic	Beckman TOC Analyzer	2	HCl
Solids, suspended	Filtration	1	None required
Solids, total dissolved	Filtration and evaporation	1	None required

---

[1] Methods are those specified in the Federal Register, Vol. 38, No. 199, Oct. 16, 1973, except for use of specific ion electrode.

[2] For water samples, this detection limit is the minimum concentration which will be reported on natural and treated water samples (99.99% H_2O) with the indicated method and using a sample of definite size.

Table 2.4-2 (Continued)

Parameter	Measurement Methodology	Detection Limit (ppm)	Sample Preservation
	SEDIMENT CHEMISTRY[3]		
Arsenic	Extraction and Atomic absorption	1	Refrigeration
Aluminum	Extraction and Atomic absorption	10	Refrigeration
Herbicide	Gas Chromatography	100ppb	Refrigeration
Lead	Extraction and Atomic absorption	0.5	Refrigeration
Mercury	Extraction and Atomic absorption	0.02	Refrigeration
Nitrogen, total Kjeldahl	Kjeldahl digestion - Electrode	10	Refrigeration
Phosphate, total	Persulfate digestion	0.25	Refrigeration
Solids, total volatile	Filtration, evaporation volatilization	10	Refrigeration
Zinc	Extraction and Atomic absorption	0.5	Refrigeration

---

[3] Detection limits vary with sample size.

2.4.1 - Physical Measurements and Water Chemistry Data

APPENDIX D-1-1

DATES OF SAMPLING FOR
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-1-1

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

Station	Date Sampled	Flow Condition
1	7-18-75	Flowing
2	7-18-75	Flowing
3	7-17-75	Flowing
4	7-17-75	Flowing
5	7-21-75	Flowing
6	7-15-75	Dry
7	7-15-75	Flowing
8	7-15-75	Flowing
9	7-15-75	Flowing
10	7-15-75	Dry
11	7-15-75	Dry
12	7-15-75	Dry
13	7-15-75	Flowing
14	7-21-75	Flowing
15	7-21-75	Flowing
16	7-15-75	Dry
17	7-21-75	Flowing
18	7-16-75	Flowing
19	8- 6-75	Flowing
20	8- 5-75	Flowing
21	8- 5-75	Flowing
22	8- 6-75	Flowing
23	8- 1-75	Flowing
24	7-28-75	Flowing
25	7-28-75	Flowing
26	7-28-75	Flowing
27	7-31-75	Flowing
28	8- 1-75	Flowing
29	7-31-75	Flowing
30	7-29-75	Flowing
31	7-29-75	Flowing
32	7-29-75	Flowing
33	7-30-75	Flowing
34	7-30-75	Flowing
35	7-30-75	Flowing

APPENDIX D-1-2

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975.

APPENDIX D-1-2

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUIDES AUGUST - SEPTEMBER 1975

Station	Date Sampled	Flow Condition
1	8-29-75	Flowing
2	8-29-75	Flowing
3	8-20-75	Flowing
4	8-20-75	Flowing
5	8-25-75	Flowing
6	8-22-75	Dry
7	8-22-75	Flowing
8	8-22-75	Flowing
9	8-22-75	Flowing
10	8-22-75	Dry
11	8-22-75	Dry
12	8-28-75	Flowing
13	8-25-75	Flowing
14	8-25-75	Flowing
15	8-28-75	Dry
16	8-25-75	Dry
17	8-28-75	Flowing
18	8-28-75	Dry
19	8-21-75	Flowing
20	9- 2-75	Flowing
21	9- 2-75	Flowing
22	9- 2-75	Flowing
23	9- 9-75	Flowing
24	9- 4-75	Flowing
25	9- 4-75	Flowing
26	9- 4-75	Flowing
27	9- 5-75	Flowing
28	9- 5-75	Flowing
29	9- 5-75	Flowing
30	9- 3-75	Flowing
31	9- 3-75	Flowing
32	9- 3-75	Flowing
33	9- 8-75	Flowing
34	9- 8-75	Flowing
35	9- 8-75	Flowing

[illegible]

APPENDIX D-2-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975.

APPENDIX D-2-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975[1]

STATION	CHARACTERISTICS				
	WATER TEMPERATURE (°C)	CONDUCTIVITY (μmhos/cm)	DISSOLVED OXYGEN (mg/l)	ALKALINITY Total (mg/l as $CaCO_3$)	pH
1	19	900	7.1	393	7.7
2	11	1100	7.4	398	7.7
3	18	1200	6.7	383	7.8
4	17	1200	8.2	434	7.7
5	22	1400	7.3	388	8.3
7	22	1200	7.6	318	8.3
8	10	1050	7.7	370	7.4
9	23	1200	6.9	324	8.0
13	18	1200	6.2	396	7.5
14	19	2000	12.9	532	7.9
15	27	1900	8.0	461	8.0
17	18	1800	5.7	518	7.8
18	13	1900	7.9	514	8.1
19	22	2600	8.1	650	8.4
20	19	3800	8.7	1375	8.8
21	19	3900	8.1	1451	8.7
22	16	3700	12.3	1445	8.7
23	19	675; 675;650	8.5	185	8.1
24	21	625; 625	8.3	397	8.2
25	21	700; 750;650	7.9	455	8.2

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[1] Stations 6, 10-12, and 16 were dry at the time of sampling.

APPENDIX D-2-1 (Continued)

STATION	CHARACTERISTICS				
	WATER TEMPERATURE (°C)	CONDUCTIVITY (µmhos/cm)	DISSOLVED OXYGEN (mg/l)	ALKALINITY Total (mg/l as $CaCO_3$)	pH
26	21	625; 625	7.8	462	8.2
27	18	625; 625;625	8.5	473	8.2
28	18	1250; 700;675; 675; 675	8.7	189	8.2
29	18	750; 675;625	8.2	453	8.2
30	18	600; 600	8.2	462	8.2
31	18	600; 600	7.9	453	8.2
32	18	600; 600	8.1	486	8.2
33	19	625; 625;625	8.2	188	8.2
34	19	650; 650;650	8.1	186	8.2
35	19	620; 625;650; 650; 650	8.0	187	8.2

APPENDIX D-2-1 (Continued)

STATION	CHARACTERISTIC							
	TURBIDITY (JTU)	COLOR (APHA Units)	ODOR	SUBSTRATE^2	WIDTH	DEPTH (in)		
						s	m	s
1	83	10-20	None	Gr,Sa,D	12"		2½"	
2	1	5-10	None	Gr,Sa	31"		2½"	
3	7	10-20	None	Gr,Sa,Si	10"		½"	
4	1	5-10	None	Gr,Sa	27"		2½"	
5	3	20-30	None	Gr,Sa	10"		2 "	
7	4	10-20	None	Gr,Si	9"		3 "	
8	1	10-20	None	Gr,Si	51"	2½";	2½"	
9	4	10-20	None	Gr,Si	8"		3 "	
13	6	10-20	None	Gr,Sa	34"		3 "	
14	7	10-20	None	Sa,Si	43"		36 "	
15	2	20-30	None	Gr,Sa	48"		2 "	
17	8	10-20	None	Gr,Sa	12"		2 "	
18	1	20-30	None	Gr,Sa	23"		2 "	
19	9	30-40	None	Gr	10"		6 "	
20	7	20-30	None	Gr,Si	15"		5 "	
21	8	30-40	None	Gr,Sa	54"		3 "	
22	25	25-35	None	Gr,Si	32"		9 "	
23	20	20-30	None	Gr	35'	6 ";	19 ";	10"
24	15	20-30	None	Co,Gr	139'	4 ";	19 ";	26"
25	20	15-25	None	Co	139'	34 ";	26 ";	14"

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[2] Cl = Clay Sa = Sand
Co = Cobble Si = Silt
D = Detritus
Gr = Gravel

APPENDIX D-2-1 (Continued)

STATION	CHARACTERISTIC					
	TURBIDITY (JTU)	COLOR (APHA Units)	ODOR	SUBSTRATE	WIDTH	DEPTH (in) s m s
26	15	10-20	None	Co	139'	12";11";10"
27	28	10-20	None	Sa,Si	45'	8";28";18"
28	28	15-25	None	Co,Sa	73'	7";13"; 1"
29	20	15-25	None	Co,Gr	35'	7";16"; 6"
30	18	10-20	None	Co	148'	6";18";20"
31	18	10-20	None	Co	148'	18";18";24"
32	20	10-20	None	Co	148'	27";27";12"
33	13	8-15	None	Gr,Si	45'	14";24";13"
34	10	10-20	None	Gr,Sa	39'	28"; 8";13"
35	15	10-20	None	Gr,Sa	58'	11";30"; 6"

RBOSP [illegible]

APPENDIX D-2-2

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-2-2

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975[1]

STATION	CHARACTERISTICS				
	WATER TEMPERATURE (°C)	CONDUCTIVITY (μmhos/cm)	DISSOLVED OXYGEN (mg/l)	ALKALINITY Total (mg/l as $CaCO_3$)	pH
1	12	950	6.1	409	7.3
2	11	1000	8.5	397	7.6
3	17	1300	6.0	442	7.9
4	11	1350	7.5	433	7.8
5	16	1500	9.4	416	8.2
7	15	1200	8.2	385	8.0
8	11	1100	8.1	387	7.5
9	19	1200	7.9	364	8.0
12	17	1150	7.6	363	8.4
13	11	1300	7.6	419	7.6
14	12	1850	7.4	564	7.9
17	19	1500	7.9	526	7.8
19	16	2800	14.2	748	8.2
20	25	3300	7.2	1650	8.7
21	24	3900	8.8	1651	8.7
22	16	4100	8.2	1858	8.6
23	15	850; 850;850	9.3	230	8.3
24	17	775; 775;775	10.3	211	8.2
25	17	775; 775;775	10.1	218	8.2

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[1] Stations 6, 10-11, 15-16, and 18 were dry at the time of sampling.

APPENDIX D-2-2 (Continued)

STATION	CHARACTERISTICS				
	WATER TEMPERATURE (°C)	CONDUCTIVITY (μmhos/cm)	DISSOLVED OXYGEN (mg/l)	ALKALINITY Total (mg/l as $CaCO_3$)	pH
26	17	800; 800; 800	10.3	209	8.2
27	18	825; 800; 800	10.9	206	8.6
28	18	800;1250;2500	10.5	422	8.6
29	18	825; 900; 875	10.2	230	8.6
30	18	850; 825; 800	10.7	212	8.4
31	18	800; 800; 800	10.1	214	8.4
32	18	800; 800; 800	10.6	221	8.3
33	18	875; 875; 875	9.7	236	8.4
34	16	875; 875	9.9	225	8.4
35	16	875; 875; 875	9.2	228	8.4

APPENDIX D-2-2 (Continued)

STATION	CHARACTERISTIC							
	TURBIDITY (JTU)	COLOR (APHA Units)	ODOR	SUBSTRATE[2]	WIDTH	DEPTH (in)		
						s	m	s
1	12	10-20	None	Gr,Sa	6"		1"	
2	3	10-20	None	Gr,Sa	12"		1"	
3	85	20-30	None	Gr,Sa,D	8"		½"	
4	6	10-20	None	Gr,Sa	28"		3"	
5	1	10-20	None	Gr,Sa	9"		4"	
7	30	10-20	None	Gr,Sa	14"		4"	
8	1	10-20	None	Gr,Sa	38"		2"	
9	40	10-20	None	Gr,Sa	27"		2"	
12	175	20-30	None	Gr,Sa	8"		½"	
13	1	10-20	None	Gr,Sa	30"		4"	
14	2	20-30	None	Si	28"		4"	
17	188	20-30	None	Gr,Sa	24"		½"	
19	23	30-40	None	Gr,Sa	9"		4"	
20	28	25-35	None	Si,Gr,Sa	65"		3"	
21	25	20-30	None	Gr,Sa	32"		4"	
22	38	30-40	None	Gr,Sa	30"		4"	
23	15	20-30	None	Co,Gr	33'	10"	21"	6"
24	15	20-30	None	Co,Sa	138'	4"	21"	6"
25	15	20-30	None	Co,Sa	138'	4"	7"	18"

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[2] Cl = Clay Gr = Gravel
Co = Cobble Sa = Sand
D = Detritus Si = Silt

APPENDIX D-2-2 (Continued)

STATION	CHARACTERISTIC					
	TURBIDITY (JTU)	COLOR (APHA Units)	ODOR	SUBSTRATE	WIDTH	DEPTH (in)
						s m s
26	13	20-30	None	Co,Sa	138'	18";23";20"
27	10	20-30	None	Co,Sa	45'	20";12"; 7"
28	28	15-25	None	Co,Sa	66'	7";18"; 7"
29	15	10-20	None	Co,Sa	45'	7";12"; 7"
30	13	10-20	None	Co,Gr	146'	9";11";13"
31	13	10-20	None	Co,Gr	146'	13";17";20"
32	17	10-20	None	Co,Gr	146'	20";20"; 7"
33	10	10-20	None	Co,Si	45'	14";16"; 9"
34	15	20-30	None	Co,Sa	10'	13";20"
35	10	10-20	None	Co	58'	7";29";19"

APPENDIX D-3-1 WATER CHEMISTRY DATA. RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975. (Data are expressed in mg/l unless otherwise noted.)[1,2]

STATION REPLICATE	AMMONIA (N)	CALCIUM (Ca)	ORGANIC CARBON (C) DISSOLVED	TOTAL ORGANIC CARBON(C)	CHLORIDE (Cl)	COLOR
1-A	<0.1	84	11	13	4	10-20
1-B	<0.1	84	11	25	4	10-20
2-A	<0.1	90	17	8	40	5-10
2-B	<0.1	90	10	7	18	5-10
3-A	<0.1	82	10	7	17	10-20
3-B	<0.1	94	6	7	12	10-20
4-A	<0.1	104	16	7	48	5-10
4-B	<0.1	102	4	5	8	5-10
5-A	<0.1	86	11	9	11	20-30
5-B	<0.1	84	10	10	11	20-30
7-A	<0.1	76	8	8	8	10-20
7-B	<0.1	78	7	6	8	10-20
8-A	<0.1	78	7	8	11	10-20
8-B	<0.1	78	8	9	11	10-20
9-A	<0.1	78	12	6	8	10-20
9-B	<0.1	80	9	7	8	10-20
13-A	<0.1	70	8	6	25	10-20
13-B	<0.1	70	10	5	10	10-20
14-A	<0.1	116	13	11	26	20-30
14-B	<0.1	118	11	11	21	20-30
15-A	<0.1	94	8	13	21	20-30
15-B	<0.1	94	11	11	21	20-30
17-A	<0.1	152	7	7	16	10-20
17-B	<0.1	130	11	7	16	10-20
18-A	<0.1	124	19	13	41	20-30
18-B	<0.1	124	11	11	21	20-30

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[1] Stations 6, 10-12, and 16 were dry at the time of sampling.

[2] Data for color are APHA units, all other data are expressed in mg/l.

APPENDIX D-3-1 (Continued)

STATION REPLICATE	AMMONIA (N)	CALCIUM (Ca)	ORGANIC CARBON (C) DISSOLVED	TOTAL ORGANIC CARBON(C)	CHLORIDE (Cl)	COLOR
19-A	<0.1	44	16	7	32	30-40
19-B	<0.1	44	7	7	32	30-40
20-A	<0.1	12	<1	8	107	20-30
20-B	<0.1	12	4	8	143	20-30
21-A	<0.1	12	7	4	146	30-40
21-B	<0.1	12	<1	<1	177	30-40
22-A	<0.1	10	7	7	146	30-40
22-B	<0.1	10	<1	<1	150	20-30
23-A	0.10	64	4	4	22	20-30
23-B	0.14	64	2	2	27	20-30
24-A	<0.1	60	4	4	92	20-30
24-B	<0.1	61	3	3	24	10-20
25-A	<0.1	61	3	3	22	10-20
25-B	<0.1	62	3	3	23	10-20
26-A	0.19	61	3	3	22	10-20
26-B	0.22	75	3	3	22	10-20
27-A	<0.1	60	9	9	24	20-30
27-B	<0.1	62	9	9	22	10-20
28-A	<0.1	66	9	9	23	10-20
28-B	<0.1	62	9	9	23	20-30
29-A	<0.1	62	9	9	22	10-20
29-B	<0.1	62	7	9	21	10-20
30-A	<0.1	66	11	9	22	10-20
30-B	<0.1	60	9	9	23	10-20
31-A	<0.1	60	9	15	23	10-20
31-B	<0.1	60	9	9	23	10-20

APPENDIX D-3-1 (Continued)

STATION REPLICATE	AMMONIA (N)	CALCIUM (Ca)	ORGANIC CARBON (C) DISSOLVED	TOTAL ORGANIC CARBON(C)	CHLORIDE (Cl)	COLOR
32-A	<0.1	61	9	9	23	10-20
32-B	<0.1	61	9	9	22	10-20
33-A	<0.1	63	10	10	22	10-20
33-B	<0.1	62	10	9	21	5-10
34-A	<0.1	65	10	10	21	10-20
34-B	<0.1	64	9	9	22	10-20
35-A	<0.1	62	12	10	22	10-20
35-B	<0.1	66	10	10	22	10-20

APPENDIX D-3-1 (Continued)

STATION REPLICATE	HARDNESS (CaCO)	MAGNESIUM (Mg)	NITRATE (N)	NITRITE (N)	KJELDAHL NITROGEN (N)	ODOR	ORTHO-PHOSPHATE (P)	TOTAL PHOSPHATE (P)
1-A	413	46	0.7	<0.01	.77	None	0.02	0.12
1-B	433	46	0.7	<0.01	.88	None	0.03	0.12
2-A	435	44	0.8	0.06	.26	None	0.01	0.11
2-B	424	46	0.7	0.06	.34	None	<0.01	0.07
3-A	426	56	<0.2	<0.01	.91	None	0.02	0.19
3-B	433	56	<0.2	<0.01	.82	None	0.01	0.10
4-A	454	58	1.3	<0.01	.29	None	0.03	0.04
4-B	462	56	1.4	<0.01	.26	None	0.02	0.03
5-A	534	76	<0.2	<0.01	.61	None	0.01	0.05
5-B	513	76	<0.2	<0.01	.66	None	0.02	0.04
7-A	394	58	0.9	<0.01	.36	None	0.02	0.03
7-B	403	56	1.0	<0.01	.38	None	<0.01	0.02
8-A	407	52	0.7	<0.01	.33	None	0.08	0.03
8-B	411	53	0.7	<0.01	.38	None	0.03	0.03
9-A	403	58	0.6	<0.01	.51	None	<0.01	0.02
9-B	407	56	0.9	<0.01	.63	None	<0.01	0.01
13-A	394	56	0.3	<0.01	.46	None	0.03	0.05
13-B	390	56	0.2	<0.01	.38	None	0.03	0.05
14-A	636	104	1.2	0.03	.69	None	<0.01	0.04
14-B	640	108	1.1	0.04	.66	None	<0.01	0.03
15-A	653	106	<0.2	0.02	.63	None	<0.01	0.02
15-B	640	106	<0.2	0.02	.63	None	<0.01	0.03
17-A	644	96	0.5	<0.01	.68	None	0.04	0.07
17-B	623	92	0.3	<0.01	.64	None	0.05	0.04
18-A	633	104	0.6	0.03	.68	None	<0.01	0.03
18-B	640	104	0.6	0.03	.64	None	<0.01	0.05
19-A	734	166	<0.2	<0.01	.54	None	<0.01	0.05
19-B	725	165	<0.2	<0.01	.54	None	<0.01	0.04

APPENDIX D-3-1 (Continued)

STATION REPLICATE	HARDNESS (CaCO)	MAGNESIUM (Mg)	NITRATE (N)	NITRITE (N)	KJELDAHL NITROGEN (N)	ODOR	ORTHO-PHOSPHATE (P)	TOTAL PHOSPHATE (P)
20-A	433	101	<0.2	<0.01	.51	None	<0.01	0.03
20-B	433	100	<0.2	<0.01	.42	None	<0.01	0.03
21-A	450	102	<0.2	<0.01	.42	None	<0.01	0.02
21-B	458	103	<0.2	<0.01	.42	None	<0.01	0.02
22-A	441	102	<0.2	<0.01	.42	None	0.01	0.06
22-B	441	104	<0.2	<0.01	.68	None	<0.01	0.04
23-A	250	22	<0.2	<0.01	.35	None	0.02	0.06
23-B	246	23	<0.2	<0.01	.41	None	0.02	0.06
24-A	233	21	<0.2	<0.01	.46	None	0.02	0.09
24-B	237	21	<0.2	<0.01	.41	None	0.02	0.06
25-A	237	21	<0.2	<0.01	.51	None	0.02	0.07
25-B	242	20	<0.2	<0.01	.78	None	0.01	0.07
26-A	242	20	<0.2	<0.01	.35	None	0.02	0.06
26-B	237	20	<0.2	<0.01	.30	None	0.01	0.07
27-A	246	20	<0.2	<0.01	.39	None	0.02	0.08
27-B	250	20	<0.2	<0.01	.38	None	0.02	0.08
28-A	254	22	<0.2	<0.01	.39	None	0.02	0.06
28-B	254	22	<0.2	<0.01	.38	None	0.04	0.06
29-A	250	20	<0.2	<0.01	.44	None	0.04	0.09
29-B	246	22	<0.2	<0.01	.42	None	0.03	0.09
30-A	242	20	<0.2	<0.01	.28	None	0.02	0.05
30-B	246	20	<0.2	<0.01	.28	None	0.03	0.06

APPENDIX D-3-1 (Continued)

STATION REPLICATE	HARDNESS (CaCO)	MAGNESIUM (Mg)	NITRATE (N)	NITRITE (N)	KJELDAHL NITROGEN (N)	ODOR	ORTHO-PHOSPHATE (P)	TOTAL PHOSPHATE (P)
31-A	242	20	<0.2	<0.01	.35	None	0.02	0.06
31-B	242	20	<0.2	<0.01	.26	None	0.03	0.09
32-A	242	22	<0.2	<0.01	.20	None	0.02	0.07
32-B	242	22	<0.2	<0.01	.18	None	0.03	0.06
33-A	246	22	<0.2	<0.01	.17	None	0.04	0.05
33-B	242	22	<0.2	<0.01	.15	None	0.04	0.05
34-A	245	21	<0.2	<0.01	.27	None	0.02	0.02
34-B	245	22	<0.2	<0.01	.22	None	0.02	0.05
35-A	242	22	<0.2	<0.01	.21	None	0.02	0.02
35-B	242	22	<0.2	<0.01	.22	None	0.02	0.05

APPENDIX D-3-1 (Continued)

STATION REPLICATE	PARAMETER						
	POTASSIUM (K)	SOLUBLE SILICA (Si)	SODIUM (Na)	DISSOLVED SOLIDS	SUSPENDED SOLIDS	SULFATE (S)	TURBIDITY (JTU)
1-A	1.7	9.7	40	572	120	38	40
1-B	1.8	9.7	40	567	*658	39	125
2-A	1.2	10.0	61	624	21	54	0.7
2-B	1.3	10.0	61	611	23	53	0.7
3-A	2.8	8.2	99	818	21	94	7
3-B	2.9	8.1	99	814	8	93	6
4-A	1.9	9.4	78	811	7	88	0.9
4-B	1.8	9.4	78	782	8	87	0.8
5-A	4.1	4.4	129	975	7	32	2
5-B	4.1	4.4	131	962	10	31	4
7-A	2.0	8.9	92	712	29	87	2
7-B	2.0	8.8	91	715	33	86	5
8-A	1.9	8.9	78	666	6	64	1
8-B	1.8	9.1	78	671	6	58	0.7
9-A	3.0	9.4	97	760	15	87	4
9-B	3.0	9.2	98	740	20	88	3
13-A	2.4	9.0	112	780	20	80	7
13-B	2.4	9.4	112	777	26	84	5
14-A	5.7	8.1	181	1350	23	189	5
14-B	5.7	8.1	180	1350	38	190	8
15-A	5.9	6.0	182	1300	11	190	0.9
15-B	5.8	5.9	182	1300	19	192	2
17-A	6.9	9.2	156	1260	38	168	9
17-B	6.6	9.3	156	1240	55	168	7
18-A	6.3	9.1	182	1360	5	190	1
18-B	6.4	9.1	182	1340	12	189	1
19-A	6.4	2.5	402	1930	19	277	8
19-B	6.4	2.5	405	1920	17	280	10

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*Samples visibly different

APPENDIX D-3-1 (Continued)

STATION REPLICATE	PARAMETER						
	POTASSIUM (K)	SOLUBLE SILICA (Si)	SODIUM (Na)	DISSOLVED SOLIDS	SUSPENDED SOLIDS	SULFATE (S)	TURBIDITY (JTU)
20-A	6.6	0.04	873	2440	19	163	7
20-B	6.5	0.05	878	2470	13	160	7
21-A	6.8	0.04	879	2580	11	162	8
21-B	6.8	0.06	879	2490	12	162	8
22-A	6.7	0.14	975	2540	32	166	25
22-B	6.8	0.12	979	2540	30	165	25
23-A	2.4	3.80	49	417	60	41	20
23-B	2.5	3.80	50	399	65	41	20
24-A	2.3	3.80	49	369	36	38	15
24-B	2.3	3.80	50	371	51	36	15
25-A	2.5	4.10	50	374	47	38	20
25-B	2.3	3.90	50	371	50	38	20
26-A	2.2	4.50	49	365	51	37	15
26-B	2.5	4.80	49	367	51	38	15
27-A	2.2	4.40	41	410	74	39	30
27-B	2.2	4.00	41	394	72	39	25
28-A	2.4	4.90	45	415	52	42	20
28-B	2.3	5.10	44	406	50	42	20
29-A	2.2	4.90	41	396	124	40	35
29-B	2.2	4.80	41	393	161	40	30
30-A	2.3	4.50	40	383	49	39	15
30-B	2.1	4.10	40	385	34	39	20

APPENDIX D-3-1 (Continued)

STATION REPLICATE	PARAMETER						
	POTASSIUM (K)	SOLUBLE SILICA (Si)	SODIUM (Na)	DISSOLVED SOLIDS	SUSPENDED SOLIDS	SULFATE (S)	TURBIDITY (JTU)
31-A	2.2	4.60	43	385	39	39	20
31-B	2.2	4.10	41	391	30	37	15
32-A	2.2	4.60	50	401	43	40	20
32-B	2.2	4.60	50	406	45	39	20
33-A	2.1	4.40	43	390	23	39	10
33-B	2.2	4.10	42	378	23	39	15
34-A	2.2	4.60	43	386	20	40	10
34-B	2.1	4.10	43	380	24	40	10
35-A	2.3	4.60	43	383	23	39	15
35-B	2.3	4.60	43	383	26	40	15

APPENDIX D-3-2

WATER CHEMISTRY DATA
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-3-2 WATER CHEMISTRY DATA. RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975. (Data are expressed in mg/l unless otherwise noted.)[1,2]

STATION REPLICATE	AMMONIA (N)	CALCIUM (Ca)	ORGANIC CARBON (C) DISSOLVED	TOTAL ORGANIC CARBON(C)	CHLORIDE (Cl)	COLOR
1-A	<0.1	97	<1	1	4.2	10-20
1-B	<0.1	97	<1	<1	4.3	10-20
2-A	<0.1	87	<1	<1	4.3	10-20
2-B	<0.1	87	<1	<1	4.4	10-20
3-A	<0.1	76	4	10	11	20-30
3-B	0.1	84	<1	6	12	20-30
4-A	0.1	100	<1	<1	6.1	10-20
4-B	0.1	107	<1	<1	6.1	10-20
5-A	<0.1	87	<1	<1	11	10-20
5-B	<0.1	87	<1	<1	11	10-20
7-A	<0.1	87	<1	<1	6.8	10-20
7-B	<0.1	88	<1	<1	6.5	10-20
8-A	<0.1	80	<1	<1	11	10-20
8-B	<0.1	80	<1	<1	11	10-20
9-A	<0.1	81	<1	<1	6.3	10-20
9-B	<0.1	83	<1	<1	6.2	10-20
12-A	<0.1	69	<1	2	9.2	20-30
12-B	<0.1	67	2	3	16	20-30
13-A	<0.1	78	<1	<1	10	10-20
13-B	<0.1	79	<1	<1	11	10-20
14-A	<0.1	116	<1	<1	19	20-30
14-B	<0.1	117	1	5	19	20-30
17-A	<0.1	106	6	14	18	20-30
17-B	<0.1	103	4	6	18	20-30
19-A	<0.1	43	<1	3	29	30-40
19-B	<0.1	43	3	9	32	30-40

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[1] Stations 6, 10-11, 15-16 and 18 were dry at the time of sampling.

[2] Data for color are APHA units, all other data are expressed in mg/l.

APPENDIX D-3-2 (Continued)

STATION REPLICATE	AMMONIA (N)	CALCIUM (Ca)	ORGANIC CARBON (C) DISSOLVED	TOTAL ORGANIC CARBON(C)	CHLORIDE (Cl)	COLOR
20-A	<0.1	13	<1	<1	169	20-30
20-B	<0.1	13	<1	<1	164	30-40
21-A	<0.1	14	<1	<1	159	20-30
21-B	<0.1	14	<1	<1	160	20-30
22-A	<0.1	13	<1	<1	160	30-40
22-B	<0.1	13	<1	<1	161	30-40
23-A	<0.1	76	1	1	34	20-30
23-B	<0.1	78	2	1	34	20-30
24-A	<0.1	68	1	<1	36	20-30
24-B	<0.1	68	2	1	37	20-30
25-A	<0.1	70	2	<1	30	20-30
25-B	<0.1	71	1	1	31	20-30
26-A	<0.1	68	1	1	30	20-30
26-B	<0.1	68	1	<1	31	20-30
27-A	<0.1	66	1	1	30	20-30
27-B	<0.1	68	1	1	29	20-30
28-A	<0.1	66	<1	<1	41	20-30
28-B	<0.1	66	<1	<1	36	10-20
29-A	<0.1	66	2	1	31	10-20
29-B	<0.1	68	<1	<1	30	10-20
30-A	<0.1	66	1	<1	30	10-20
30-B	<0.1	64	1	<1	30	10-20

APPENDIX D-3-2 (Continued)

STATION REPLICATE	AMMONIA (N)	CALCIUM (Ca)	ORGANIC CARBON (C) DISSOLVED	TOTAL ORGANIC CARBON(C)	CHLORIDE (Cl)	ÇOLOR
31-A	<0.1	68	<1	<1	31	10-20
31-B	<0.1	68	<1	<1	30	10-20
32-A	<0.1	67	2	1	31	10-20
32-B	<0.1	66	2	1	31	10-20
33-A	<0.1	71	3	<1	44	10-20
33-B	<0.1	76	1	<1	33	10-20
34-A	<0.1	73	<1	<1	35	20-30
34-B	<0.1	73	<1	<1	34	20-30
35-A	<0.1	70	2	<1	33	10-20
35-B	<0.1	70	2	<1	33	10-20

APPENDIX D-3-2 (Continued)

STATION REPLICATE	HARDNESS (CaCO)	MAGNESIUM (Mg)	NITRATE (N)	NITRITE (N)	KJELDAHL NITROGEN (N)	ODOR	ORTHO-PHOSPHATE (P)	TOTAL PHOSPHATE (P)
1-A	430	47	0.7	<0.01	0.68	None	<0.01	0.06
1-B	430	48	1.5	<0.01	0.54	None	<0.01	0.03
2-A	397	44	<0.2	<0.01	0.35	None	<0.01	0.06
2-B	394	44	<0.2	<0.01	0.30	None	<0.01	0.05
3-A	447	51	<0.2	<0.01	3.10	None	<0.01	0.30
3-B	450	57	<0.2	<0.01	3.20	None	<0.01	0.27
4-A	517	56	0.5	<0.01	0.37	None	0.02	0.08
4-B	515	60	0.4	<0.01	0.41	None	0.02	0.06
5-A	543	82	<0.2	<0.01	0.40	None	0.01	0.01
5-B	547	82	<0.2	<0.01	0.37	None	<0.01	0.01
7-A	433	60	0.3	<0.01	0.39	None	<0.01	0.10
7-B	435	64	0.6	<0.01	0.40	None	<0.01	0.11
8-A	413	50	<0.2	<0.01	0.22	None	0.03	0.11
8-B	409	50	<0.2	<0.01	0.22	None	0.02	0.04
9-A	413	60	0.3	<0.01	0.40	None	<0.01	0.11
9-B	417	60	0.2	<0.01	0.40	None	<0.01	0.09
12-A	450	64	0.4	<0.01	0.68	None	<0.01	0.32
12-B	417	64	0.3	<0.01	0.63	None	<0.01	0.37
13-A	437	59	<0.2	<0.01	0.16	None	0.03	0.04
13-B	439	59	<0.2	<0.01	0.22	None	0.04	0.04
14-A	704	109	0.9	0.04	0.68	None	0.01	0.05
14-B	708	109	0.7	0.04	0.85	None	<0.01	0.16
17-A	653	104	<0.2	<0.01	0.85	None	0.02	0.42
17-B	645	103	<0.2	<0.01	0.85	None	0.02	0.47
19-A	759	168	<0.2	<0.01	0.68	None	0.03	0.12
19-B	763	168	<0.2	<0.01	0.60	None	0.03	0.13

APPENDIX D-3-2 (Continued)

STATION REPLICATE	HARDNESS (CaCO)	MAGNESIUM (Mg)	NITRATE (N)	NITRITE (N)	KJELDAHL NITROGEN (N)	ODOR	ORTHO-PHOSPHATE (P)	TOTAL PHOSPHATE (P)
20-A	428	98	< 0.2	0.01	0.60	None	< 0.01	0.05
20-B	422	95	< 0.2	0.01	0.76	None	< 0.01	0.05
21-A	424	98	< 0.2	0.01	0.68	None	< 0.01	0.04
21-B	420	98	< 0.2	0.01	0.73	None	< 0.01	0.04
22-A	445	98	< 0.2	0.01	0.80	None	< 0.01	0.06
22-B	441	98	< 0.2	0.01	0.80	None	< 0.01	0.07
23-A	293	32	< 0.2	< 0.01	0.37	None	< 0.01	0.05
23-B	288	33	< 0.2	< 0.01	0.32	None	< 0.01	0.06
24-A	284	30	< 0.2	< 0.01	0.32	None	< 0.01	0.06
24-B	280	28	< 0.2	< 0.01	0.24	None	< 0.01	0.06
25-A	276	30	< 0.2	< 0.01	0.29	None	0.01	0.05
25-B	271	31	< 0.2	0.01	0.34	None	< 0.01	0.05
26-A	271	30	< 0.2	< 0.01	0.33	None	< 0.01	0.05
26-B	271	30	< 0.2	< 0.01	0.33	None	< 0.01	0.05
27-A	280	30	< 0.2	< 0.01	0.21	None	< 0.01	0.04
27-B	278	30	< 0.2	< 0.01	0.20	None	< 0.01	0.03
28-A	269	30	< 0.2	< 0.01	0.21	None	< 0.01	0.04
28-B	276	34	< 0.2	< 0.01	0.21	None	< 0.01	0.03
29-A	271	31	< 0.2	< 0.01	0.15	None	< 0.01	0.04
29-B	273	31	< 0.2	< 0.01	0.15	None	< 0.01	0.04
30-A	271	30	< 0.2	< 0.01	0.40	None	< 0.01	0.04
30-B	269	30	< 0.2	< 0.01	0.33	None	< 0.01	0.04

APPENDIX D-3-2 (Continued)

STATION REPLICATE	HARDNESS (CaCO)	MAGNESIUM (Mg)	NITRATE (N)	NITRITE (N)	KJELDAHL NITROGEN (N)	ODOR	ORTHO-PHOSPHATE (P)	TOTAL PHOSPHATE (P)
31-A	271	31	<0.2	<0.01	0.31	None	<0.01	0.04
31-B	271	31	<0.2	<0.01	0.33	None	<0.01	0.04
32-A	271	31	<0.2	<0.01	0.33	None	<0.01	0.03
32-B	271	31	<0.2	<0.01	0.37	None	<0.01	0.04
33-A	293	33	<0.2	<0.01	0.31	None	<0.01	0.03
33-B	293	33	<0.2	<0.01	0.31	None	<0.01	0.03
34-A	290	33	<0.2	<0.01	0.41	None	<0.01	0.03
34-B	295	33	<0.2	<0.01	0.18	None	<0.01	0.05
35-A	288	33	<0.2	<0.01	0.24	None	<0.01	0.02
35-B	290	33	<0.2	<0.01	0.26	None	<0.01	0.03

APPENDIX D-3-2 (Continued)

STATION REPLICATE	PARAMETER						
	POTASSIUM (K)	SOLUBLE SILICA (Si)	SODIUM (Na)	DISSOLVED SOLIDS	SUSPENDED SOLIDS	SULFATE (S)	TURBIDITY (JTU)
1-A	0.70	10	43	606	78	41	20
1-B	0.70	10	43	607	15	40	3
2-A	0.95	11	72	633	40	51	4
2-B	0.95	11	72	622	23	50	2
3-A	5.20	8.4	100	833	407	86	85
3-B	5.90	8.8	102	824	356	95	85
4-A	1.40	9.5	83	826	41	81	5
4-B	1.50	10	86	822	37	86	6
5-A	2.00	4.6	130	993	1	135	0.7
5-B	1.90	4.7	130	995	3	133	0.8
7-A	1.50	9.7	87	737	92	85	30
7-B	1.50	9.9	88	749	111	84	30
8-A	1.50	9.4	77	679	1	63	0.4
8-B	1.50	9.5	75	683	2	66	0.6
9-A	1.70	9.5	89	730	120	98	40
9-B	1.70	9.5	89	732	93	88	40
12-A	4.20	6.1	98	772	285	93	175
12-B	4.40	5.7	98	764	314	96	175
13-A	1.90	4.9	115	800	< 1.0	87	0.5
13-B	1.90	5.5	120	817	< 1.0	85	0.4
14-A	3.60	9.2	180	1300	2	176	2
14-B	3.60	9.3	180	1300	2	168	2
17-A	5.80	10.0	170	1300	718	170	200
17-B	5.70	9.9	170	1300	402	139	175
19-A	5.90	4.9	385	1900	53	274	20
19-B	5.70	5.1	385	1900	34	297	25

APPENDIX D-3-2 (Continued)

STATION REPLICATE	PARAMETER						
	POTASSIUM (K)	SOLUBLE SILICA (Si)	SODIUM (Na)	DISSOLVED SOLIDS	SUSPENDED SOLIDS	SULFATE (S)	TURBIDITY (JTU)
20-A	5.00	1.9	880	3500	25	152	25
20-B	5.00	2.0	890	2500	29	135	30
21-A	5.10	1.6	890	2500	30	146	25
21-B	5.10	1.6	890	2500	35	153	25
22-A	5.50	0.4	910	2600	40	150	34
22-B	5.50	0.4	900	2600	41	149	40
23-A	2.60	6.4	70	555	41	56	15
23-B	2.60	6.7	71	531	41	54	15
24-A	2.40	6.2	62	486	41	46	15
24-B	2.40	6.3	62	494	33	52	15
25-A	2.60	6.2	57	770	37	50	15
25-B	2.60	6.2	58	822	31	52	15
26-A	2.40	6.2	58	497	32	48	15
26-B	2.50	6.2	59	501	31	47	10
27-A	2.30	6.1	60	508	19	47	10
27-B	2.50	6.1	62	505	18	52	10
28-A	2.60	5.8	99	537	167	59	35
28-B	2.50	6.1	76	546	40	52	20
29-A	2.40	6.1	74	530	50	54	15
29-B	2.40	6.1	73	526	45	50	15
30-A	2.40	6.0	56	493	32	50	10
30-B	2.60	6.2	62	485	39	53	15

APPENDIX D-3-2 (Continued)

STATION REPLICATE	PARAMETER						
	POTASSIUM (K)	SOLUBLE SILICA (Si)	SODIUM (Na)	DISSOLVED SOLIDS	SUSPENDED SOLIDS	SULFATE (S)	TURBIDITY (JTU)
31-A	2.40	6.1	61	495	33	51	15
31-B	2.40	6.1	59	476	28	52	10
32-A	2.40	6.1	66	502	27	51	15
32-B	2.40	6.1	67	502	27	51	15
33-A	2.50	5.7	70	531	22	56	10
33-B	2.50	5.8	69	536	20	55	10
34-A	2.80	5.8	70	762	23	57	15
34-B	2.80	5.8	70	784	29	58	15
35-A	2.50	5.8	70	536	21	55	10
35-B	2.60	5.8	69	540	19	59	10

2.4.2 Phytoplankton

2.4.2 Phytoplankton

2.4.2.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.2.1 of Progress Report 3 for specific objectives.

2.4.2.2 Methods

No change in methods has occurred since Progress Report 3. See section 2.4.2.2 of Progress Report 2 for specific methods used in phytoplankton studies.

2.4.2.3 Results

Algal taxa observed in the July - August 1975 phytoplankton collections are listed in Appendix D-4-1. A total of 133 taxa was observed in these samples. Quantitative data from July - August are presented in Appendix D-4-2. During the July - August 1975 sampling, the Chrysophyta and Cyanophyta were the most abundant algal groups at all stations other than those in the White River. The most abundant species at the Headwater stations included the diatoms *Achnanthes minutissima*, and several species of the genera *Navicula* and *Nitzschia*. *Achnanthes minutissima* and several species of *Nitzschia* also dominated the phytoplankton on or near Tract. At Yellow Creek stations, the most abundant taxa were the diatoms *Cyclotella meneghiniana* and *Navicula viridula*. As found in previous months, the phytoplankton abundance at Station 19 was lower than at the other Yellow Creek stations. The Chrysophyta were also the dominant algal group in the White River. The diatoms *Synedra ulna* and *Nitzschia holsatica* and an unidentified green flagellate were the most abundant taxa.

The algal taxa observed in August - September are listed in Appendix D-5-1. A total of 123 taxa was observed in the August - September collections. Quantitative data from those collections are presented in Appendix D-5-2. The dominant algal taxa at the Headwater stations varied among the stations. The algal flora at Station 1 was dominated by *Navicula arvensis* and *Achnanthes minutissima*. *Achnanthes minutissima* and *Synedra minuscula* were the most abundant algal taxa at Station 2. The most abundant algal taxa at Stations 3 and 4 were *Navicula cryptocephala* and *Nitzschia palea* whereas at Station 5, *Cocconeis pediculus* was most abundant. During the August - September sampling, the phytoplankton of the Tract stations were dominated by *Achnanthes minutissima*, *Navicula cryptocephala* and *Nitzschia capitellata*. *Cyclotella meneghiniana*, *Nitzschia frustulum* and *Nitzschia latens* were the dominant algal taxa at Yellow Creek stations. As in previous months, densities were relatively low in Yellow Creek. Dominant algal taxa at the White River stations include *Epithemia sorex* and *Nitzschia frustulum*.

2.4.2 - Phytoplankton Data

APPENDIX D-4-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-4-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

CYANOPHYTA

- *CYANOPHYTA I*
- *CHROOCOCCUS DISPERSUS*
- *CHROOCOCCUS LIMNETICUS*
- *MERISMOPEDIA GLAUCA*
- *OSCILLATORIA LIMOSA*
- *OSCILLATORIA TENUIS*
- *OSCILLATORIA* SPP
- *SCHIZOTHRIX CALCICOLA*
- *ANABAENA* SPP
- *CALOTHRIX* SPP
- GROUP TOTAL

CHLOROPHYTA

- *CHLAMYDOMONAS GLOBOSA*
- *CHLAMYDOMONAS SNOWII*
- *PANDORINA MORUM*
- *ULOTHRIX* SPP
- *STIGEOCLONIUM* SPP
- *CLADOPHORA* SPP
- *PEDIASTRUM SIMPLEX*
- *ANKISTRODESMUS CONVOLUTUS*

CHLOROPHYTA (CONTINUED)

ANKISTRODESMUS FALCATUS

SELENASTRUM MINUTUM

SCENEDESMUS QUADRICAUDA

MOUGEOTIA SPP

SPIROGYRA SPP

ZYGNEMA SPP

CLOSTERIUM LEIBLEINII

CLOSTERIUM MACILENTUM

CLOSTERIUM PARVULUM

COSMARIUM RADIOSUM

COSMARIUM TURPINII

COSMARIUM SPP

CHLOROPHYTA I

FLAGELLATE UNIDENTIFIED

CHRYSOPHYTA

CHRYSOPHYTA I

CHRYSIDIASTRUM OCELLATUM

THALASSIOSIRA FLUVIATILIS

CYCLOTELLA MENEGHINIANA

CYCLOTELLA STELLIGERA

APPENDIX D-4-1 (Continued)

CHRYSOPHYTA (CONTINUED)

STEPHANODISCUS ASTRAEA

STEPHANODISCUS TENUIS

DIATOMA HIEMALE

DIATOMA VULGARE

MERIDION CIRCULARE

FRAGILARIA CAPUCINA

FRAGILARIA CONSTRUENS

FRAGILARIA CROTONENSIS

FRAGILARIA LEPTOSTAURON

FRAGILARIA PINNATA

FRAGILARIA VAUCHERIAE

FRAGILARIA SPP

HANNAEA ARCUS

SYNEDRA ACUS

SYNEDRA AMPHICEPHALA

SYNEDRA FAMELICA

SYNEDRA MINUSCULA

SYNEDRA PULCHELLA

SYNEDRA TENERA

CHRYSOPHYTA (CONTINUED)

SYNEDRA ULNA

ASTERIONELLA FORMOSA

COCCONEIS PEDICULUS

COCCONEIS PLACENTULA

ACHNANTHES LANCEOLATA

ACHNANTHES MINUTISSIMA

RHOICOSPHENIA CURVATA

GYROSIGMA ACUMINATUM

PLEUROSIGMA DELICATULUM

ANOMOEONEIS SPHAEROPHORA

NAVICULA ANGLICA

NAVICULA ARVENSIS

NAVICULA CRYPTOCEPHALA

NAVICULA CUSPIDATA

NAVICULA GREGARIA

NAVICULA MINIMA

NAVICULA MUTICA

NAVICULA PELLICULOSA

NAVICULA PUPULA

NAVICULA SALINARUM

NAVICULA TRIPUNCTATA

NAVICULA VAUCHERIAE

NAVICULA VIRIDULA

NAVICULA SPP

CHRYSOPHYTA (CONTINUED)

NAVICULA SP 1

NAVICULA SP 2

NAVICULA SP 3

NAVICULA SP 5

CALONEIS AMPHISBAENA

CALONEIS BACILLUM

PINNULARIA BREBISSONII

PINNULARIA GLOBICEPS

PINNULARIA VIRIDIS

PINNULARIA SPP

AMPHORA OVALIS

AMPHORA OVALIS VAR. *PEDICULUS*

CYMBELLA AEQUALIS

CYMBELLA AFFINIS

CYMBELLA CISTULA

CYMBELLA MICROCEPHALA

CYMBELLA SINUATA

CYMBELLA TUMIDA

CYMBELLA VENTRICOSA

GOMPHONEMA INTRICATUM

GOMPHONEMA OLIVACEUM

CHRYSOPHYTA (CONTINUED)

GOMPHONEMA PARVULUM

GOMPHONEMA VENTRICOSUM

EPITHEMIA SOREX

EPITHEMIA ZEBRA

RHOPALODIA GIBBA

CYLINDROTHECA GRACILIS

HANTZSCHIA AMPHIOXYS

NITZSCHIA ACICULARIS

NITZSCHIA ANGUSTATA

NITZSCHIA APICULATA

NITZSCHIA CAPITATA

NITZSCHIA CAPITELLATA

NITZSCHIA DENTICULA

NITZSCHIA DISSIPATA

NITZSCHIA FONTICOLA

NITZSCHIA FRUSTULUM

NITZSCHIA GRACILIS

NITZSCHIA HOLSATICA

NITZSCHIA LINEARIS

NITZSCHIA PALEA

NITZSCHIA SIGMOIDEA

NITZSCHIA TRYBLIONELLA

APPENDIX D-4-1 (Continued)

```
   CHRYSOPHYTA  (CONTINUED)

         NITZSCHIA VERMICULARIS
         --------- ------------

         CYMATOPLEURA SOLEA
         ------------ -----

         SURIRELLA ANGUSTATA
         --------- ---------

         SURIRELLA OVATA
         --------- -----

         SURIRELLA OVALIS
         --------- ------

         GROUP TOTAL

EUGLENOPHYTA

         EUGLENA PROXIMA
         ------- -------

         EUGLENA SPP
         -------

         GROUP TOTAL

PYRRHOPHYTA

         GYMNODINIUM SPP
         -----------

         CERATIUM HIRUNDINELLA
         -------- ------------

         GROUP TOTAL

CRYPTOPHYTA

         CRYPTOMONAS EROSA
         ----------- -----

         GROUP TOTAL

         GRAND TOTAL
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APPENDIX D-4 -2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

DENSITIES OF ALGAL TAXA OBSERVED IN THE PYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES

JULY - AUGUST 1975

Site = 01 Rep = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	167.00
CHROOCOCCUS DISPERSUS	22.00
OSCILLATORIA SPP	5.00
CHLOROPHYTA	
ZYGNEMA SPP	.28
CHLOROPHYTA I	54.00
FLAGELLATE UNIDENTIFIED	70.00
CHRYSOPHYTA	
DIATOMA HIEMALE	24.00
FRAGILARIA VAUCHERIAE	5.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	192.00
NAVICULA ARVENSIS	130.00
NAVICULA CRYPTOCEPHALA	62.00
NAVICULA CUSPIDATA	.02
NAVICULA GREGARIA	22.00
NAVICULA PELLICULOSA	30.00

APPENDIX D-4-2 (Continued)

SITE = 01 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	3.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA SP 2	5.00
CALONEIS BACILLUM	3.00
PINNULARIA BREBISSONII	3.00
PINNULARIA VIRIDIS	3.00
CYMBELLA AFFINIS	8.00
GOMPHONEMA INTRICATUM	3.00
CYLINDROTHECA GRACILIS	3.00
HANTZSCHIA AMPHIOXYS	5.00
NITZSCHIA DENTICULA	8.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	27.00
NITZSCHIA PALEA	65.00
SURIRELLA ANGUSTATA	3.00
EUGLENOPHYTA	
EUGLENA SPP	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	659.00
CHROOCOCCUS DISPERSUS	43.00
OSCILLATORIA SPP	3.00
CHLOROPHYTA	
ZYGNEMA SPP	7.80
CHLOROPHYTA I	68.00
FLAGELLATE UNIDENTIFIED	140.00
CHRYSOPHYTA	
CHRYSOPHYTA I	189.00
MERIDION CIRCULARE	19.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA AMPHICEPHALA	5.00
ACHNANTHES MINUTISSIMA	205.00
ANOMOEONEIS SPHAEROPHORA	3.00
NAVICULA ARVENSIS	173.00
NAVICULA CRYPTOCEPHALA	105.00
NAVICULA GREGARIA	30.00

APPENDIX D[illegible]-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA PELLICULOSA	32.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	16.00
NAVICULA SP 1	8.00
NAVICULA SP 2	16.00
CALONEIS BACILLUM	5.00
AMPHORA OVALIS	16.00
CYMBELLA AFFINIS	14.00
CYMBELLA TUMIDA	8.00
EPITHEMIA SOREX	3.00
HANTZSCHIA AMPHIOXYS	5.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA DENTICULA	22.00
NITZSCHIA DISSIPATA	8.00
NITZSCHIA FRUSTULUM	40.00
NITZSCHIA PALEA	86.00
SURIRELLA OVATA	5.00
EUGLENOPHYTA	
EUGLENA SPP	5.00

APPENDIX D-4-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX B-4-2 (Continued)

SITE = 02 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
SCENEDESMUS QUADRICAUDA	11.00
CHLOROPHYTA I	4.00
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	4.00
ACHNANTHES LANCEOLATA	6.00
ACHNANTHES MINUTISSIMA	127.00
NAVICULA CRYPTOCEPHALA	2.00
NAVICULA SALINARUM	2.00
NAVICULA VIRIDULA	2.00
AMPHORA OVALIS	2.00
CYMBELLA AFFINIS	2.00
GOMPHONEMA INTRICATUM	4.00
GOMPHONEMA PARVULUM	6.00
NITZSCHIA FRUSTULUM	4.00
NITZSCHIA LINEARIS	2.00

APPENDIX D-4-2 (Continued)

SITE = 02 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ULOTHRIX SPP	.15
SCENEDESMUS QUADRICAUDA	6.00
SPIROGYRA SPP	.15
CHLOROPHYTA I	7.00
FLAGELLATE UNIDENTIFIED	24.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	14.00
ACHNANTHES LANCEOLATA	10.00
ACHNANTHES MINUTISSIMA	81.00
NAVICULA CRYPTOCEPHALA	7.00
NAVICULA PELLICULOSA	9.00
NAVICULA SALINARUM	2.00
NAVICULA VIRIDULA	2.00
NAVICULA SP I	2.00
AMPHORA OVALIS VAR. PEDICULUS	2.00
CYMBELLA AFFINIS	2.00
CYMBELLA VENTRICOSA	2.00
GOMPHONEMA INTRICATUM	11.00
GOMPHONEMA PARVULUM	2.00

APPENDIX D-4-2 (Continued)

SITE = 02 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	11.00
NITZSCHIA FRUSTULUM	8.00

APPENDIX D-4-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	54.00
OSCILLATORIA TENUIS	2.00
SCHIZOTHRIX CALCICOLA	4.00
ANABAENA SPP	4.00
CHLOROPHYTA	
ZYGNEMA SPP	4.00
CHLOROPHYTA I	2.00
FLAGELLATE UNIDENTIFIED	46.00
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	2.00
ACHNANTHES LANCEOLATA	15.00
ACHNANTHES MINUTISSIMA	34.00
ANOMOEONEIS SPHAEROPHORA	31.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	284.00
NAVICULA PELLICULOSA	6.00
NAVICULA SALINARUM	26.00

APPENDIX D-4-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	18.00
NAVICULA VIRIDULA	24.00
NAVICULA SP 1	2.00
NAVICULA SP 2	16.00
NAVICULA SP 5	6.00
CALONEIS BACILLUM	2.00
PINNULARIA VIRIDIS	2.00
AMPHORA OVALIS	4.00
CYMBELLA AFFINIS	4.00
GOMPHONEMA PARVULUM	2.00
EPITHEMIA SOREX	2.00
EPITHEMIA ZEBRA	4.00
CYLINDROTHECA GRACILIS	4.00
NITZSCHIA CAPITATA	15.00
NITZSCHIA DENTICULA	2.00
NITZSCHIA FONTICOLA	2.00
NITZSCHIA FRUSTULUM	39.00
NITZSCHIA LINEARIS	2.00
NITZSCHIA PALEA	69.00
SURIRELLA OVALIS	11.00
EUGLENOPHYTA	
EUGLENA SPP	8.00

APPENDIX D-4-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	4.00

APPENDIX D-4-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	221.00
OSCILLATORIA LIMOSA	3.00
ANABAENA SPP	3.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
CHLAMYDOMONAS SNOWII	5.00
SPIROGYRA SPP	.08
COSMARIUM SPP	3.00
CHLOROPHYTA I	38.00
FLAGELLATE UNIDENTIFIED	62.00
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	5.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES LANCEOLATA	22.00
ACHNANTHES MINUTISSIMA	68.00
ANOMOEONEIS SPHAEROPHORA	100.00
NAVICULA ARVENSIS	5.00

APPENDIX D-4-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	513.00
NAVICULA GREGARIA	16.00
NAVICULA SALINARUM	32.00
NAVICULA TRIPUNCTATA	24.00
NAVICULA VIRIDULA	159.00
NAVICULA SP 1	35.00
NAVICULA SP 5	5.00
CALONEIS BACILLUM	5.00
PINNULARIA BREBISSONII	11.00
PINNULARIA GLOBICEPS	5.00
PINNULARIA VIRIDIS	3.04
AMPHORA OVALIS	5.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA OLIVACEUM	5.00
EPITHEMIA SOREX	5.00
EPITHEMIA ZEBRA	19.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	65.00
NITZSCHIA DENTICULA	5.00
NITZSCHIA DISSIPATA	5.00

APPENDIX D-4-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	57.00
NITZSCHIA LINEARIS	14.00
NITZSCHIA PALEA	59.00
SURIRELLA OVATA	6.00
SURIRELLA OVALIS	5.00
EUGLENOPHYTA	
EUGLENA SPP	40.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	22.00

APPENDIX D-4-2 (Continued)

SITE = 04 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CHLOROPHYTA I	8.00
FLAGELLATE UNIDENTIFIED	127.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	3.00
CYCLOTELLA MENEGHINIANA	3.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA AMPHICEPHALA	16.00
ACHNANTHES LANCEOLATA	24.00
ACHNANTHES MINUTISSIMA	154.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA ARVENSIS	19.00
NAVICULA CRYPTOCEPHALA	76.00
NAVICULA MUTICA	3.00
NAVICULA PELLICULOSA	19.00
NAVICULA SALINARUM	62.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA SP 2	14.00
NAVICULA SP 5	8.00
PINNULARIA BREBISSONII	3.00

APPENDIX D-4-2 (Continued)

SITE = 04 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA AFFINIS	5.00
GOMPHONEMA INTRICATUM	5.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA DENTICULA	11.00
NITZSCHIA FRUSTULUM	49.00
NITZSCHIA LINEARIS	70.00
NITZSCHIA PALEA	57.00
SURIRELLA OVALIS	.02
EUGLENOPHYTA	
EUGLENA SPP	.02
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

APPENDIX D-4-2 (Continued)

SITE = 04 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CHLOROPHYTA I	11.00
FLAGELLATE UNIDENTIFIED	108.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	3.00
MERIDION CIRCULARE	8.00
SYNEDRA AMPHICEPHALA	5.00
ACHNANTHES LANCEOLATA	19.00
ACHNANTHES MINUTISSIMA	108.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA ARVENSIS	22.00
NAVICULA CRYPTOCEPHALA	86.00
NAVICULA CUSPIDATA	3.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM	46.00
NAVICULA TRIPUNCTATA	11.00
NAVICULA SP 2	3.00
NAVICULA SP 5	3.00
CYMBELLA AEQUALIS	3.00
CYMBELLA AFFINIS	8.00

APPENDIX D-4-2 (Continued)

SITE = 04 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA DENTICULA	8.00
NITZSCHIA FRUSTULUM	24.00
NITZSCHIA LINEARIS	30.00
NITZSCHIA PALEA	138.00
EUGLENOPHYTA	
EUGLENA SPP	3.00
PYRRHOPHYTA	
CERATIUM HIRUNDINELLA	.02
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

APPENDIX D-4-2 (Continued)

SITE = U5 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CLOSTERIUM LEIBLEINII	.04
CHLOROPHYTA I	7.00
FLAGELLATE UNIDENTIFIED	42.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	2.00
COCCONEIS PEDICULUS	65.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	4.00
GYROSIGMA ACUMINATUM	2.00
PLEUROSIGMA DELICATULUM	6.00
NAVICULA CRYPTOCEPHALA	4.00
NAVICULA CUSPIDATA	.02
NITZSCHIA ACICULARIS	2.00
NITZSCHIA FRUSTULUM	7.00
SURIRELLA OVATA	2.00
EUGLENOPHYTA	
EUGLENA SPP	2.00

APPENDIX D-4-2 (Continued)

SITE = 05 REP = 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	6.00

APPENDIX D-4-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	3.00
CHLOROPHYTA I	30.00
FLAGELLATE UNIDENTIFIED	73.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	3.00
COCCONEIS PEDICULUS	265.00
ACHNANTHES MINUTISSIMA	8.00
PLEUROSIGMA DELICATULUM	27.00
ANOMOEONEIS SPHAEROPHORA	3.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA CUSPIDATA	.02
NAVICULA VIRIDULA	3.00
PINNULARIA VIRIDIS	.02
AMPHORA OVALIS	3.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA FRUSTULUM	19.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-4-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	24.00

APPENDIX D-4-2 (Continued)

SITE = 07 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CHLAMYDOMONAS GLOBOSA	2.00
PEDIASTRUM SIMPLEX	1.28
CHLOROPHYTA I	8.00
FLAGELLATE UNIDENTIFIED	39.00
CHRYSOPHYTA	
MERIDION CIRCULARE	2.00
FRAGILARIA CROTONENSIS	6.00
SYNEDRA AMPHICEPHALA	7.00
SYNEDRA ULNA	2.00
ACHNANTHES MINUTISSIMA	74.00
GYROSIGMA ACUMINATUM	2.00
ANOMOEONEIS SPHAEROPHORA	2.00
NAVICULA CRYPTOCEPHALA	2.00
NAVICULA CUSPIDATA	.04
NAVICULA SALINARUM	7.00
CYMBELLA TUMIDA	2.00
GOMPHONEMA INTRICATUM	2.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA DENTICULA	10.00

APPENDIX D-4-2 (Continued)

SITE = 07 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	15.00
NITZSCHIA LINEARIS	4.00
SURIRELLA OVALIS	.02

APPENDIX D-4-2 (Continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	22.00
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	103.00
CHRYSOPHYTA	
CHRYSOPHYTA I	14.00
CHRYSIDIASTRUM OCELLATUM	8.00
FRAGILARIA CROTONENSIS	.30
SYNEDRA AMPHICEPHALA	5.00
ACHNANTHES MINUTISSIMA	616.00
GYROSIGMA ACUMINATUM	.14
NAVICULA ARVENSIS	5.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	19.00
NAVICULA VIRIDULA	3.00
AMPHORA OVALIS	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00

APPENDIX D-4-2 (Continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA FRUSTULUM	62.00
NITZSCHIA SIGMOIDEA	.02
EUGLENOPHYTA	
EUGLENA SPP	.06

APPENDIX D-4-2 (Continued)

SITE = CS SEP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	6.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	16.00
FRAGILARIA VAUCHERIAE	2.00
SYNEDRA ULNA	2.00
ACHNANTHES LANCEOLATA	1.00
ACHNANTHES MINUTISSIMA	10.00
GYROSIGMA ACUMINATUM	1.00
NAVICULA ARVENSIS	1.00
NAVICULA TRIPUNCTATA	1.00
NAVICULA VIRIDULA	1.00
NAVICULA SP 2	1.00
CYMBELLA CISTULA	1.00
NITZSCHIA FRUSTULUM	10.00
SURIRELLA OVATA	1.00

APPENDIX D-4-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CHLOROPHYTA I	8.00
FLAGELLATE UNIDENTIFIED	43.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	42.00
CYCLOTELLA STELLIGERA	1.00
ACHNANTHES LANCEOLATA	1.00
ACHNANTHES MINUTISSIMA	50.00
GYROSIGMA ACUMINATUM	.02
ANOMOEONEIS SPHAEROPHORA	1.00
NAVICULA ARVENSIS	4.00
NAVICULA PELLICULOSA	2.00
NAVICULA SALINARUM	4.00
NAVICULA TRIPUNCTATA	2.00
NAVICULA VIRIDULA	4.00
NAVICULA SP 1	1.00
NAVICULA SP 3	1.00
PINNULARIA BREBISSONII	.02
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	1.00

APPENDIX D-4-2 (Continued)

SITE = OS REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA ACICULARIS	1.00
NITZSCHIA FRUSTULUM	23.00
NITZSCHIA LINEARIS	1.00
NITZSCHIA PALEA	2.00
SURIRELLA OVATA	2.00

APPENDIX D-4-2 (Continued)

SITE = 09 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA 1	157.00
CHROOCOCCUS LIMNETICUS	227.00
MERISMOPEDIA GLAUCA	43.00
CHLOROPHYTA	
CHLAMYDOMONAS SNOWII	5.00
CHLOROPHYTA 1	49.00
FLAGELLATE UNIDENTIFIED	157.00
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	257.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA ARVENSIS	11.00
NAVICULA CRYPTOCEPHALA	43.00
NAVICULA CUSPIDATA	.02
NAVICULA PELLICULOSA	3.00
NAVICULA SALINARUM	19.00
NAVICULA VIRIDULA	3.00
NAVICULA SP 2	8.00

APPENDIX D-4-2 (Continued)

SITE = C9 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
PINNULARIA VIRIDIS	3.00
CYMBELLA AFFINIS	5.00
NITZSCHIA DENTICULA	54.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA LINEARIS	16.00
NITZSCHIA PALEA	51.00
EUGLENOPHYTA	
EUGLENA SPP	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

APPENDIX D-4-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	281.00
CHROOCOCCUS LIMNETICUS	270.00
CHLOROPHYTA	
SPIROGYRA SPP	.94
ZYGNEMA SPP	.52
CHLOROPHYTA I	49.00
FLAGELLATE UNIDENTIFIED	165.00
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	11.00
SYNEDRA ULNA	3.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	481.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA ARVENSIS	14.00
NAVICULA CRYPTOCEPHALA	94.00
NAVICULA PELLICULOSA	11.00
NAVICULA SALINARUM	5.00

APPENDIX D-4-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	3.00
NAVICULA SP 5	3.00
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	5.00
CYLINDROTHECA GRACILIS	5.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA DENTICULA	76.00
NITZSCHIA FRUSTULUM	40.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	38.00
SURIRELLA OVATA	3.00
SURIRELLA OVALIS	3.00
EUGLENOPHYTA	
EUGLENA SPP	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	11.00

APPENDIX D-4-2 (Continued)

SITE = 13 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	5.00
CHLOROPHYTA	
MOUGEOTIA SPP	3.00
CHLOROPHYTA I	38.00
FLAGELLATE UNIDENTIFIED	19.00
CHRYSOPHYTA	
MERIDION CIRCULARE	5.00
FRAGILARIA VAUCHERIAE	38.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	162.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	14.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	5.00
NAVICULA SPP	3.00
PINNULARIA VIRIDIS	.04

APPENDIX D-4-2 (Continued)

SITE = 13 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
AMPHORA OVALIS	3.00
GOMPHONEMA INTRICATUM	14.00
GOMPHONEMA OLIVACEUM	3.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	35.00
NITZSCHIA LINEARIS	38.00
NITZSCHIA PALEA	51.00

APPENDIX D-4-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	40.00
SYNEDRA AMPHICEPHALA	11.00
SYNEDRA ULNA	3.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES MINUTISSIMA	135.00
GYROSIGMA ACUMINATUM	.04
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA CUSPIDATA	.04
NAVICULA PELLICULOSA	35.00
NAVICULA SALINARUM	27.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	3.00
NAVICULA SPP	3.00
NAVICULA SP 2	5.00
NAVICULA SP 5	3.00
PINNULARIA VIRIDIS	.05

APPENDIX D-4-2 (Continued)

SITE = 13 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
PINNULARIA SPP	3.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA INTRICATUM	14.00
GOMPHONEMA PARVULUM	8.00
GOMPHONEMA VENTRICOSUM	3.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	35.00
NITZSCHIA CAPITELLATA	43.00
NITZSCHIA DENTICULA	5.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA LINEARIS	19.00
NITZSCHIA PALEA	68.00
SURIRELLA OVATA	5.00
EUGLENOPHYTA	
EUGLENA SPP	.08
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
MERISMOPEDIA GLAUCA	32.00
OSCILLATORIA SPP	2.96
ANABAENA SPP	6.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	4.00
ANKISTRODESMUS FALCATUS	12.00
SCENEDESMUS QUADRICAUDA	6.00
CLOSTERIUM LEIBLEINII	.34
COSMARIUM RADIOSUM	2.00
CHLOROPHYTA !	14.00
FLAGELLATE UNIDENTIFIED	26.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	16.00
FRAGILARIA CROTONENSIS	152.00
SYNEDRA ACUS	68.00
SYNEDRA AMPHICEPHALA	50.00
SYNEDRA FAMELICA	94.00

APPENDIX D-4-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
SYNEDRA MINUSCULA	73.00
SYNEDRA TENERA	132.00
SYNEDRA ULNA	294.00
ACHNANTHES MINUTISSIMA	82.00
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	84.00
NAVICULA GREGARIA	7.00
NAVICULA TRIPUNCTATA	2.00
NAVICULA SP 2	2.00
NAVICULA SP 5	6.00
PINNULARIA BREBISSONII	2.00
PINNULARIA VIRIDIS	.02
CYMBELLA AFFINIS	48.00
CYMBELLA MICROCEPHALA	2.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA VENTRICOSUM	2.00
NITZSCHIA ACICULARIS	673.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA DENTICULA	102.00
NITZSCHIA FRUSTULUM	6.00
NITZSCHIA HOLSATICA	64.00

APPENDIX D-4-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA PALEA	38.00
EUGLENOPHYTA	
EUGLENA SPP	.02
CRYPTOPHYTA	
CRYPTOMONAS EROSA	32.00

APPENDIX D-4-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	16.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	1.08
CLOSTERIUM LEIBLEINII	.08
CHLOROPHYTA I	7.00
FLAGELLATE UNIDENTIFIED	18.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	6.00
FRAGILARIA CROTONENSIS	20.00
SYNEDRA ACUS	2.00
SYNEDRA AMPHICEPHALA	16.00
SYNEDRA FAMELICA	14.00
SYNEDRA MINUSCULA	8.00
SYNEDRA TENERA	15.00
SYNEDRA ULNA	48.00
ACHNANTHES MINUTISSIMA	12.00
PLEUROSIGMA DELICATULUM	.03

APPENDIX D-4-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	24.00
NAVICULA CUSPIDATA	.02
NAVICULA GREGARIA	2.00
NAVICULA TRIPUNCTATA	2.00
NAVICULA VIRIDULA	2.00
CYMBELLA AFFINIS	7.00
CYMBELLA VENTRICOSA	2.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA ACICULARIS	234.00
NITZSCHIA APICULATA	2.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA DENTICULA	23.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA HOLSATICA	11.00
NITZSCHIA PALEA	7.00
EUGLENOPHYTA	
EUGLENA SPP	.02
CRYPTOPHYTA	
CRYPTOMONAS EROSA	[illegible].00

APPENDIX D-4-2 (Continued)

SITE = 15 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA 1	28.00
MERISMOPEDIA GLAUCA	3.58
SCHIZOTHRIX CALCICOLA	7.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	17.80
ANKISTRODESMUS CONVOLUTUS	2.00
SCENEDESMUS QUADRICAUDA	6.00
CLOSTERIUM LEIBLEINII	.04
CHLOROPHYTA 1	7.00
FLAGELLATE UNIDENTIFIED	26.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	8.00
SYNEDRA AMPHICEPHALA	69.00
SYNEDRA TENERA	2.00
SYNEDRA ULNA	106.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA CRYPTOCEPHALA	24.00

APPENDIX D-4-2 (Continued)

SITE = 15 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CUSPIDATA	.06
NAVICULA PELLICULOSA	2.00
NAVICULA VIRIDULA	2.00
NAVICULA SP 2	2.00
NAVICULA SP 5	6.00
PINNULARIA VIRIDIS	2.00
CYMBELLA AFFINIS	6.00
CYMBELLA VENTRICOSA	2.00
GOMPHONEMA VENTRICOSUM	2.00
NITZSCHIA ACICULARIS	390.00
NITZSCHIA CAPITELLATA	28.00
NITZSCHIA DENTICULA	28.00
NITZSCHIA FONTICOLA	16.00
NITZSCHIA FRUSTULUM	8.00
NITZSCHIA HOLSATICA	142.00
NITZSCHIA PALEA	20.00
SURIRELLA OVALIS	.04
CRYPTOPHYTA	
CRYPTOMONAS EROSA	15.00

APPENDIX D-4-2 (Continued)

SITE = 15 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	43.00
MERISMOPEDIA GLAUCA	2.88
CHLOROPHYTA	
CLADOPHORA SPP	.32
ANKISTRODESMUS FALCATUS	2.00
CLOSTERIUM LEIBLEINII	.04
CHLOROPHYTA I	8.00
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	11.00
SYNEDRA AMPHICEPHALA	102.00
SYNEDRA TENERA	4.00
SYNEDRA ULNA	65.00
ACHNANTHES MINUTISSIMA	43.00
NAVICULA ARVENSIS	7.00
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA CUSPIDATA	.06

APPENDIX D-4-2 (Continued)

SITE = 15 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	2.00
NAVICULA VIRIDULA	7.00
NAVICULA SP 2	2.00
NAVICULA SP 5	2.00
CALONEIS BACILLUM	2.00
CYMBELLA AFFINIS	2.00
CYMBELLA VENTRICOSA	2.00
GOMPHONEMA PARVULUM	2.00
NITZSCHIA ACICULARIS	482.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA DENTICULA	47.00
NITZSCHIA FONTICOLA	10.00
NITZSCHIA FRUSTULUM	19.00
NITZSCHIA HOLSATICA	164.00
NITZSCHIA PALEA	23.00
SURIRELLA OVALIS	.06
EUGLENOPHYTA	
EUGLENA PROXIMA	.10
CRYPTOPHYTA	
CRYPTOMONAS EROSA	30.00

APPENDIX D-4-2 (Continued)

SITE = 17 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	102.00
OSCILLATORIA SPP	2.00
CHLOROPHYTA	
ULOTHRIX SPP	14.00
CHLOROPHYTA I	44.00
FLAGELLATE UNIDENTIFIED	189.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	24.00
FRAGILARIA SPP	4.00
SYNEDRA AMPHICEPHALA	16.00
SYNEDRA ULNA	31.00
COCCONEIS PEDICULUS	2.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA ARVENSIS	24.00
NAVICULA CRYPTOCEPHALA	44.00
NAVICULA CUSPIDATA	10.00
NAVICULA VIRIDULA	20.00

APPENDIX D-4-2 (Continued)

SITE = 17 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CALONEIS AMPHISBAENA	2.00
CYMBELLA VENTRICOSA	2.00
HANTZSCHIA AMPHIOXYS	4.00
NITZSCHIA ACICULARIS	380.00
NITZSCHIA CAPITELLATA	1369.00
NITZSCHIA DENTICULA	2.00
NITZSCHIA FRUSTULUM	6.00
NITZSCHIA PALEA	18.00
SURIRELLA OVATA	2.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

APPENDIX D-4-2 (Continued)

SITE = 17 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	162.00
OSCILLATORIA TENUIS	5.00
SCHIZOTHRIX CALCICOLA	16.00
CHLOROPHYTA	
ULOTHRIX SPP	4.22
COSMARIUM SPP	3.00
CHLOROPHYTA I	22.00
FLAGELLATE UNIDENTIFIED	197.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
SYNEDRA ULNA	5.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA ARVENSIS	5.00
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA CUSPIDATA	5.00
NAVICULA VIRIDULA	5.00
HANTZSCHIA AMPHIOXYS	3.00

APPENDIX D-4-2 (Continued)

SITE = 17 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA ACICULARIS	175.00
NITZSCHIA CAPITELLATA	365.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA PALEA	3.00

APPENDIX D-4-2 (Continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
STIGEOCLONIUM SPP	1.52
CHLOROPHYTA 1	20.00
FLAGELLATE UNIDENTIFIED	102.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	2.00
SYNEDRA AMPHICEPHALA	4.00
SYNEDRA ULNA	2.00
ACHNANTHES MINUTISSIMA	2.00
NAVICULA CRYPTOCEPHALA	42.00
NAVICULA PELLICULOSA	7.00
NAVICULA VIRIDULA	4.00
NAVICULA SP 2	7.00
CALONEIS BACILLUM	2.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA ACICULARIS	108.00
NITZSCHIA CAPITELLATA	28.00
NITZSCHIA DENTICULA	4.00
NITZSCHIA DISSIPATA	2.00
NITZSCHIA FONTICOLA	2.00

APPENDIX D-4-2 (Continued)

SITE = 18 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA HOLSATICA	11.00
NITZSCHIA PALEA	52.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	22.00

APPENDIX D-4-2 (Continued)

SITE = 1S REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
SCENEDESMUS QUADRICAUDA	2.00
CHLOROPHYTA I	27.00
FLAGELLATE UNIDENTIFIED	164.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	4.00
SYNEDRA AMPHICEPHALA	4.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	2.00
NAVICULA CRYPTOCEPHALA	43.00
NAVICULA CUSPIDATA	.02
NAVICULA PELLICULOSA	14.00
NAVICULA VIRIDULA	6.00
NAVICULA SP 2	7.00
CYLINDROTHECA GRACILIS	2.00
NITZSCHIA ACICULARIS	146.00
NITZSCHIA CAPITELLATA	52.00
NITZSCHIA FONTICOLA	2.00
NITZSCHIA FRUSTULUM	10.00
NITZSCHIA GRACILIS	2.00

APPENDIX D-4-2 (Continued)

SITE = 1S REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	2.00
NITZSCHIA PALEA	73.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	22.00

APPENDIX D-4-2 (Continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	92.00
SCHIZOTHRIX CALCICOLA	6.00
ANABAENA SPP	3.00
CHLOROPHYTA	
CHLOROPHYTA I	27.00
FLAGELLATE UNIDENTIFIED	178.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	32.00
CYCLOTELLA MENEGHINIANA	11.00
STEPHANODISCUS TENUIS	17.00
FRAGILARIA PINNATA	5.00
SYNEDRA TENERA	3.00
SYNEDRA ULNA	3.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	11.00
RHOICOSPHENIA CURVATA	3.00
NAVICULA CRYPTOCEPHALA	22.00

APPENDIX D-4-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA PELLICULOSA	5.00
CALONEIS BACILLUM	3.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	3.00
EPITHEMIA ZEBRA	.02
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA FONTICOLA	113.00
NITZSCHIA FRUSTULUM	19.00
NITZSCHIA HOLSATICA	5.00
NITZSCHIA PALEA	143.00

APPENDIX D-4-2 (Continued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	65.00
SCHIZOTHRIX CALCICOLA	16.00
ANABAENA SPP	5.00
CHLOROPHYTA	
CHLOROPHYTA I	32.00
FLAGELLATE UNIDENTIFIED	159.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	73.00
CYCLOTELLA MENEGHINIANA	8.00
FRAGILARIA PINNATA	5.00
COCCONEIS PEDICULUS	5.00
ACHNANTHES MINUTISSIMA	11.00
RHOICOSPHENIA CURVATA	5.00
PLEUROSIGMA DELICATULUM	.10
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA PELLICULOSA	11.00

APPENDIX D-4-2 (Continued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA OLIVACEUM	3.00
RHOPALODIA GIBBA	3.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA FONTICOLA	116.00
NITZSCHIA FRUSTULUM	19.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA PALEA	127.00
NITZSCHIA TRYBLIONELLA	3.00
NITZSCHIA VERMICULARIS	.04
EUGLENOPHYTA	
EUGLENA SPP	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-4-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	14.00
CHLOROPHYTA I	38.00
FLAGELLATE UNIDENTIFIED	246.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	994.00
STEPHANODISCUS ASTRAEA	3.00
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	19.00
GYROSIGMA ACUMINATUM	.04
PLEUROSIGMA DELICATULUM	.04
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA MINIMA	3.00
NAVICULA SALINARUM	5.00
NAVICULA VIRIDULA	108.00
NAVICULA SP 1	5.00
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA OLIVACEUM	3.00
CYLINDROTHECA GRACILIS	5.00
NITZSCHIA CAPITELLATA	30.00

APPENDIX D-4-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	43.00
NITZSCHIA HOLSATICA	30.00
NITZSCHIA LINEARIS	.12
NITZSCHIA PALEA	22.00

APPENDIX D-4-2 (Continued)

SITE = 20 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	.66
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	3.00
CHLOROPHYTA I	16.00
FLAGELLATE UNIDENTIFIED	113.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	948.00
FRAGILARIA CROTONENSIS	54.00
SYNEDRA PULCHELLA	5.00
SYNEDRA ULNA	.10
ACHNANTHES MINUTISSIMA	14.00
GYROSIGMA ACUMINATUM	.08
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA PELLICULOSA	8.00
NAVICULA SALINARUM	5.00
NAVICULA VIRIDULA	165.00
NAVICULA SP 1	11.00

APPENDIX D-4-2 (Continued)

SITE = 20 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CALONEIS AMPHISBAENA	3.00
CYMBELLA AFFINIS	3.00
CYMBELLA VENTRICOSA	19.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	38.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	35.00
NITZSCHIA HOLSATICA	49.00
NITZSCHIA LINEARIS	.02
NITZSCHIA PALEA	22.00
EUGLENOPHYTA	
EUGLENA SPP	.04

APPENDIX D-4-2 (Continued)

SITE - 21 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	22.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	5.00
CHLOROPHYTA I	19.00
FLAGELLATE UNIDENTIFIED	105.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	672.00
FRAGILARIA CONSTRUENS	11.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA SALINARUM	5.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	216.00
NAVICULA SP 1	11.00
CYMBELLA VENTRICOSA	14.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00

APPENDIX D-4-2 (Continued)

SITE = 21 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	40.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	89.00
NITZSCHIA HOLSATICA	57.00
NITZSCHIA PALEA	32.00
EUGLENOPHYTA	
EUGLENA SPP	.06

APPENDIX D-4-2 (Continued)

SITE = 21 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	32.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	8.00
CHLOROPHYTA I	24.00
FLAGELLATE UNIDENTIFIED	103.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	556.00
FRAGILARIA CROTONENSIS	19.00
SYNEDRA AMPHICEPHALA	8.00
SYNEDRA ULNA	.22
ACHNANTHES MINUTISSIMA	3.00
GYROSIGMA ACUMINATUM	.02
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA SALINARUM	3.00
NAVICULA VIRIDULA	64.00
NAVICULA SP 1	5.00
CYMBELLA VENTRICOSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 21 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA FRUSTULUM	43.00
NITZSCHIA HOLSATICA	30.00
NITZSCHIA PALEA	24.00
NITZSCHIA VERMICULARIS	.02
EUGLENOPHYTA	
EUGLENA SPP	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	6.00

APPENDIX D-4-2 (Continued)

SITE = 22 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CHLOROPHYTA I	16.00
FLAGELLATE UNIDENTIFIED	22.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	618.00
FRAGILARIA PINNATA	5.00
SYNEDRA AMPHICEPHALA	19.00
SYNEDRA PULCHELLA	3.00
SYNEDRA ULNA	19.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA PELLICULOSA	3.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	5.00
CYMBELLA AFFINIS	3.00
CYMBELLA VENTRICOSA	5.00
CYLINDROTHECA GRACILIS	11.00
NITZSCHIA ACICULARIS	19.00
NITZSCHIA CAPITELLATA	46.00
NITZSCHIA DENTICULA	11.00

PENDIX D-4-2 (Continued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	19.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	14.00
CHLOROPHYTA I	19.00
FLAGELLATE UNIDENTIFIED	62.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	500.00
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	11.00
NAVICULA CRYPTOCEPHALA	14.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	24.00
CYMBELLA VENTRICOSA	8.00
CYLINDROTHECA GRACILIS	11.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	46.00
NITZSCHIA FONTICOLA	14.00

APPENDIX D-4-2 (Continued)

SITE = 22 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	51.00
NITZSCHIA PALEA	49.00
SURIRELLA OVATA	3.00
EUGLENOPHYTA	
EUGLENA SPP	5.00

PPENDIX D-4-2 (Continued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	19.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	14.00
CHLOROPHYTA I	19.00
FLAGELLATE UNIDENTIFIED	62.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	500.00
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	11.00
NAVICULA CRYPTOCEPHALA	14.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	24.00
CYMBELLA VENTRICOSA	8.00
CYLINDROTHECA GRACILIS	11.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	46.00
NITZSCHIA FONTICOLA	14.00

APPENDIX D-4-2 (Continued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	49.00
NITZSCHIA PALEA	119.00

APPENDIX D-4-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	.28
SCHIZOTHRIX CALCICOLA	51.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.62
CLOSTERIUM MACILENTUM	.02
CHLOROPHYTA I	22.00
FLAGELLATE UNIDENTIFIED	27.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	3.00
STEPHANODISCUS TENUIS	6.00
DIATOMA VULGARE	8.00
SYNEDRA AMPHICEPHALA	5.00
SYNEDRA ULNA	40.00
COCCONEIS PEDICULUS	3.00
NAVICULA CRYPTOCEPHALA	24.00
NAVICULA PELLICULOSA	14.00

APPENDIX D-4-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	5.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VAUCHERIAE	3.00
NAVICULA VIRIDULA	38.00
NAVICULA SP 2	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	22.00
CYMBELLA VENTRICOSA	16.00
GOMPHONEMA OLIVACEUM	16.00
GOMPHONEMA VENTRICOSUM	3.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA CAPITELLATA	8.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	116.00
NITZSCHIA LINEARIS	3.00
SURIRELLA OVATA	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	.36
CHLOROPHYTA	
STIGEOCLONIUM SPP	1.00
CLOSTERIUM LEIBLEINII	.02
CHLOROPHYTA I	19.00
FLAGELLATE UNIDENTIFIED	68.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	5.00
STEPHANODISCUS TENUIS	11.00
DIATOMA VULGARE	5.00
FRAGILARIA PINNATA	8.00
FRAGILARIA VAUCHERIAE	19.00
SYNEDRA TENERA	3.00
SYNEDRA ULNA	11.00
COCCONEIS PEDICULUS	11.00
ACHNANTHES MINUTISSIMA	8.00

APPENDIX D-4-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA PELLICULOSA	3.00
NAVICULA SALINARUM	8.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	19.00
AMPHORA OVALIS VAR. PEDICULUS	8.00
CYMBELLA AFFINIS	14.00
GOMPHONEMA OLIVACEUM	16.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA HOLSATICA	108.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	16.00
SURIRELLA OVATA	8.00

APPENDIX D-4-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	5.00
SCHIZOTHRIX CALCICOLA	8.00
ANABAENA SPP	3.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	3.00
CLOSTERIUM LEIBLEINII	.02
CHLOROPHYTA I	14.00
FLAGELLATE UNIDENTIFIED	19.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
STEPHANODISCUS TENUIS	3.00
SYNEDRA ULNA	43.00
NAVICULA CRYPTOCEPHALA	14.00
NAVICULA PELLICULOSA	11.00
NAVICULA VIRIDULA	14.00
NAVICULA SP 2	3.00
AMPHORA OVALIS VAR. PEDICULUS	11.00

APPENDIX D-4-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	5.00
NITZSCHIA ACICULARIS	14.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DENTICULA	5.00
NITZSCHIA DISSIPATA	8.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	92.00
NITZSCHIA PALEA	11.00
NITZSCHIA VERMICULARIS	.02
CYMATOPLEURA SOLEA	3.00
SURIRELLA OVATA	3.00
PYRRHOPHYTA	
GYMNODINIUM SPP	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

APPENDIX D-10-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	270.00
CHLOROPHYTA	
CLADOPHORA SPP	202.00
CHRYSOPHYTA	
DIATOMA VULGARE	68.00
SYNEDRA ULNA	135.00
COCCONEIS PLACENTULA	135.00
ACHNANTHES MINUTISSIMA	270.00
GYROSIGMA ACUMINATUM	.50
NAVICULA CRYPTOCEPHALA	1485.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. INTERMEDIA	1148.00
NAVICULA TRIPUNCTATA	540.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	68.00
NAVICULA SP 1	68.00
AMPHORA OVALIS VAR. PEDICULUS	3240.00

APPENDIX D-4-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	3.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	11.00
AMPHORA OVALIS VAR. *PEDICULUS*	5.00
GOMPHONEMA INTRICATUM	5.00
GOMPHONEMA VENTRICOSUM	3.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA FRUSTULUM	16.00
NITZSCHIA HOLSATICA	78.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	24.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	3.00
SCHIZOTHRIX CALCICOLA	11.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	11.00
CHLOROPHYTA I	11.00
FLAGELLATE UNIDENTIFIED	24.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	8.00
STEPHANODISCUS TENUIS	16.00
DIATOMA VULGARE	11.00
FRAGILARIA VAUCHERIAE	8.00
SYNEDRA AMPHICEPHALA	8.00
SYNEDRA ULNA	86.00
NAVICULA CRYPTOCEPHALA	38.00
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	14.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	11.00
NAVICULA VIRIDULA	32.00
NAVICULA SP 2	5.00
AMPHORA OVALIS	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	14.00
CYMBELLA VENTRICOSA	14.00
GOMPHONEMA OLIVACEUM	16.00
GOMPHONEMA PARVULUM	3.00
NITZSCHIA ACICULARIS	30.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA GRACILIS	16.00
NITZSCHIA HOLSATICA	124.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	30.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	11.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	3.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.50
CLOSTERIUM LEIBLEINII	.02
FLAGELLATE UNIDENTIFIED	27.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	14.00
STEPHANODISCUS TENUIS	8.00
DIATOMA VULGARE	11.00
FRAGILARIA LEPTOSTAURON	8.00
FRAGILARIA PINNATA	27.00
FRAGILARIA VAUCHERIAE	5.00
HANNAEA ARCUS	3.00
SYNEDRA TENERA	3.00
SYNEDRA ULNA	35.00
COCCONEIS PEDICULUS	11.00
ACHNANTHES MINUTISSIMA	8.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA PELLICULOSA	32.00
NAVICULA SALINARUM	5.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	11.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA AFFINIS	5.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA OLIVACEUM	40.00
GOMPHONEMA VENTRICOSUM	3.00
HANTZSCHIA AMPHIOXYS	3.00
NITZSCHIA ACICULARIS	22.00
NITZSCHIA CAPITELLATA	5.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA GRACILIS	8.00
NITZSCHIA HOLSATICA	149.00
NITZSCHIA PALEA	19.00
SURIRELLA OVATA	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	11.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	3.00
SCHIZOTHRIX CALCICOLA	14.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	11.00
CLADOPHORA SPP	3.30
CHLOROPHYTA I	22.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	14.00
STEPHANODISCUS TENUIS	8.00
DIATOMA VULGARE	8.00
FRAGILARIA PINNATA	38.00
HANNAEA ARCUS	3.00
SYNEDRA AMPHICEPHALA	16.00
SYNEDRA ULNA	68.00
NAVICULA ANGLICA	3.00
NAVICULA CRYPTOCEPHALA	38.00
NAVICULA PELLICULOSA	30.00

APPENDIX D-4-2 (Continued)

SITE = 26 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	19.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VAUCHERIAE	3.00
NAVICULA VIRIDULA	22.00
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	16.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	19.00
GOMPHONEMA OLIVACEUM	24.00
HANTZSCHIA AMPHIOXYS	3.00
NITZSCHIA ACICULARIS	46.00
NITZSCHIA CAPITELLATA	27.00
NITZSCHIA DISSIPATA	6.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	186.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	40.00
CYMATOPLEURA SOLEA	.02
CRYPTOPHYTA	
CRYPTOMONAS EROSA	11.00

APPENDIX D-4-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	85.00
ANABAENA SPP	3.00
CALOTHRIX SPP	14.00
CHLOROPHYTA	
PANDORINA MORUM	22.00
STIGEOCLONIUM SPP	5.00
CLOSTERIUM LEIBLEINII	.02
CHLOROPHYTA I	27.00
FLAGELLATE UNIDENTIFIED	40.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	19.00
STEPHANODISCUS TENUIS	16.00
DIATOMA VULGARE	5.00
FRAGILARIA CONSTRUENS	19.00
FRAGILARIA LEPTOSTAURON	5.00
FRAGILARIA PINNATA	6.00
FRAGILARIA VAUCHERIAE	5.00

APPENDIX D-4-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	3.00
SYNEDRA ULNA	111.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA CRYPTOCEPHALA	40.00
NAVICULA PELLICULOSA	5.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	22.00
AMPHORA OVALIS	11.00
AMPHORA OVALIS VAR. *PEDICULUS*	3.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA OLIVACEUM	40.00
NITZSCHIA ACICULARIS	24.00
NITZSCHIA ANGUSTATA	3.00
NITZSCHIA CAPITELLATA	3.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA DISSIPATA	11.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	8.00
NITZSCHIA GRACILIS	5.00

APPENDIX D-4-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	316.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	11.00
CYMATOPLEURA SOLEA	.02
SURIRELLA OVATA	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	.34
SCHIZOTHRIX CALCICOLA	46.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.40
SELENASTRUM MINUTUM	5.00
CHLOROPHYTA I	19.00
FLAGELLATE UNIDENTIFIED	81.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	14.00
FRAGILARIA LEPTOSTAURON	3.00
FRAGILARIA VAUCHERIAE	100.00
SYNEDRA ULNA	89.00
COCCONEIS PLACENTULA	3.00
ACHNANTHES MINUTISSIMA	19.00
NAVICULA CRYPTOCEPHALA	19.00

APPENDIX [illegible]-4-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA PELLICULOSA	19.00
NAVICULA TRIPUNCTATA	22.00
NAVICULA VIRIDULA	19.00
AMPHORA OVALIS VAR. PEDICULUS	16.00
CYMBELLA AFFINIS	8.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA INTRICATUM	5.00
GOMPHONEMA OLIVACEUM	27.00
NITZSCHIA ACICULARIS	14.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	64.00
NITZSCHIA LINEARIS	5.00
NITZSCHIA PALEA	54.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	43.00
SCHIZOTHRIX CALCICOLA	30.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.42
CHLOROPHYTA I	14.00
FLAGELLATE UNIDENTIFIED	68.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	8.00
CYCLOTELLA MENEGHINIANA	11.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	14.00
FRAGILARIA LEPTOSTAURON	5.00
FRAGILARIA PINNATA	24.00
FRAGILARIA VAUCHERIAE	8.00
SYNEDRA ULNA	43.00
ASTERIONELLA FORMOSA	5.00
COCCONEIS PEDICULUS	3.00

APPENDIX D-4-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	5.00
PLEUROSIGMA DELICATULUM	3.00
NAVICULA CRYPTOCEPHALA	30.00
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	16.00
NAVICULA TRIPUNCTATA	14.00
NAVICULA VIRIDULA	54.00
CALONEIS AMPHISBAENA	3.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA AFFINIS	19.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	14.00
GOMPHONEMA VENTRICOSUM	5.00
NITZSCHIA ACICULARIS	8.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	8.00
NITZSCHIA HOLSATICA	116.00
NITZSCHIA PALEA	59.00

APPENDIX D-4-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMATOPLEURA SOLEA	.02
SURIRELLA OVATA	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-4-2 (Continued)

SITE - [illegible] REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	2.00
SCHIZOTHRIX CALCICOLA	4.00
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	30.00
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	6.00
DIATOMA VULGARE	7.00
FRAGILARIA PINNATA	2.00
FRAGILARIA VAUCHERIAE	2.00
HANNAEA ARCUS	2.00
SYNEDRA ULNA	19.00
COCCONEIS PEDICULUS	2.00
ACHNANTHES MINUTISSIMA	6.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA PELLICULOSA	2.00
NAVICULA SALINARUM	6.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	2.00
NAVICULA VIRIDULA	8.00
AMPHORA OVALIS VAR. PEDICULUS	16.00
CYMBELLA AFFINIS	4.00
CYMBELLA SINUATA	2.00
CYMBELLA VENTRICOSA	10.00
GOMPHONEMA INTRICATUM	2.00
GOMPHONEMA OLIVACEUM	6.00
NITZSCHIA ACICULARIS	10.00
NITZSCHIA DISSIPATA	2.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA HOLSATICA	56.00
NITZSCHIA PALEA	14.00
CYMATOPLEURA SOLEA	.04
SURIRELLA OVATA	2.00

APPENDIX D-4-2 (Continued)

SITE = 25 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	5.00
SCHIZOTHRIX CALCICOLA	35.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.12
FLAGELLATE UNIDENTIFIED	49.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	11.00
DIATOMA VULGARE	17.00
FRAGILARIA CAPUCINA	30.00
FRAGILARIA LEPTOSTAURON	3.00
FRAGILARIA PINNATA	32.00
FRAGILARIA VAUCHERIAE	11.00
SYNEDRA ULNA	22.00
ACHNANTHES MINUTISSIMA	14.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	22.00

APPENDIX D-4-2 (Continued)

SITE = 28 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	16.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	38.00
CALONEIS AMPHISBAENA	.02
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA AFFINIS	14.00
CYMBELLA SINUATA	5.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA INTRICATUM	5.00
GOMPHONEMA OLIVACEUM	27.00
GOMPHONEMA VENTRICOSUM	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	8.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	105.00
NITZSCHIA PALEA	22.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	43.00
SCHIZOTHRIX CALCICOLA	40.00
CHLOROPHYTA	
PANDORINA MORUM	22.00
STIGEOCLONIUM SPP	5.00
CHLOROPHYTA I	32.00
FLAGELLATE UNIDENTIFIED	49.00
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	24.00
FRAGILARIA PINNATA	5.00
SYNEDRA AMPHICEPHALA	16.00
SYNEDRA ULNA	68.00
COCCONEIS PEDICULUS	3.00
PLEUROSIGMA DELICATULUM	.02
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA CUSPIDATA	.04

APPENDIX D-4-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA MUTICA	5.00
NAVICULA PELLICULOSA	14.00
NAVICULA SALINARUM	11.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VAUCHERIAE	3.00
NAVICULA VIRIDULA	38.00
CALONEIS AMPHISBAENA	.02
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA AFFINIS	36.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	24.00
GOMPHONEMA OLIVACEUM	24.00
GOMPHONEMA VENTRICOSUM	11.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	16.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	176.00
NITZSCHIA LINEARIS	5.00
NITZSCHIA PALEA	3.00

APPENDIX D-4-2 (Continued)

SITE = 29 REP - 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-4-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	30.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	11.00
CHLOROPHYTA I	22.00
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
CHRYSOPHYTA I	86.00
CYCLOTELLA MENEGHINIANA	5.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	11.00
SYNEDRA AMPHICEPHALA	8.00
SYNEDRA ULNA	78.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA PUPULA	3.00
NAVICULA SALINARUM	3.00

APPENDIX D-4-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	49.00
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	11.00
CYMBELLA VENTRICOSA	16.00
GOMPHONEMA OLIVACEUM	11.00
GOMPHONEMA VENTRICOSUM	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA HOLSATICA	64.00
NITZSCHIA PALEA	8.00
CYMATOPLEURA SOLEA	.02
SURIRELLA ANGUSTATA	3.00
SURIRELLA OVATA	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	6.00

APPENDIX D-1-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	40.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.24
FLAGELLATE UNIDENTIFIED	92.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	14.00
FRAGILARIA CONSTRUENS	19.00
FRAGILARIA LEPTOSTAURON	8.00
FRAGILARIA PINNATA	5.00
SYNEDRA AMPHICEPHALA	5.00
SYNEDRA ULNA	59.00
COCCONEIS PEDICULUS	5.00
ACHNANTHES MINUTISSIMA	3.00
PLEUROSIGMA DELICATULUM	.22
ANOMOEONEIS SPHAEROPHORA	3.00

APPENDIX D-4-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA PELLICULOSA	14.00
NAVICULA SALINARUM	5.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	43.00
CYMBELLA AFFINIS	5.00
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	11.00
NITZSCHIA ACICULARIS	14.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	11.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	46.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	16.00
CYMATOPLEURA SOLEA	.04
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-4-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	65.00
OSCILLATORIA TENUIS	.40
OSCILLATORIA SPP	5.00
SCHIZOTHRIX CALCICOLA	19.00
CHLOROPHYTA	
ULOTHRIX SPP	.22
STIGEOCLONIUM SPP	11.00
ANKISTRODESMUS FALCATUS	3.00
FLAGELLATE UNIDENTIFIED	138.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	19.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	11.00
FRAGILARIA PINNATA	3.00
FRAGILARIA VAUCHERIAE	11.00
SYNEDRA ULNA	51.00
COCCONEIS PEDICULUS	3.00

APPENDIX D-4-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
ACHNANTHES LANCEOLATA	5.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA PELLICULOSA	8.00
NAVICULA SALINARUM	16.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	30.00
AMPHORA OVALIS VAR. PEDICULUS	8.00
CYMBELLA AFFINIS	8.00
CYMBELLA VENTRICOSA	14.00
GOMPHONEMA OLIVACEUM	14.00
EPITHEMIA SOREX	3.00
NITZSCHIA ACICULARIS	14.00
NITZSCHIA CAPITELLATA	16.00
NITZSCHIA DISSIPATA	11.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	143.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	30.00
SURIRELLA OVATA	3.00

APPENDIX D-4-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	22.00
SCHIZOTHRIX CALCICOLA	11.00
CHLOROPHYTA	
ULOTHRIX SPP	3.00
CHLOROPHYTA I	59.00
FLAGELLATE UNIDENTIFIED	108.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	8.00
CYCLOTELLA MENEGHINIANA	14.00
STEPHANODISCUS TENUIS	8.00
DIATOMA VULGARE	11.00
FRAGILARIA LEPTOSTAURON	319.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	92.00
COCCONEIS PEDICULUS	24.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA CRYPTOCEPHALA	22.00

APPENDIX D-4-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA GREGARIA	3.00
NAVICULA SALINARUM	11.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	51.00
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	8.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA INTRICATUM	5.00
GOMPHONEMA OLIVACEUM	11.00
GOMPHONEMA VENTRICOSUM	3.00
EPITHEMIA SOREX	3.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	8.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA HOLSATICA	59.00
NITZSCHIA PALEA	8.00
CYMATOPLEURA SOLEA	.04
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-4-2 (Continued)

SITE = 31 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	140.00
OSCILLATORIA TENUIS	5.00
SCHIZOTHRIX CALCICOLA	14.00
CHLOROPHYTA	
CLADOPHORA SPP	14.00
ANKISTRODESMUS FALCATUS	3.00
CLOSTERIUM PARVULUM	.02
CHLOROPHYTA I	16.00
FLAGELLATE UNIDENTIFIED	140.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	16.00
STEPHANODISCUS TENUIS	14.00
DIATOMA VULGARE	16.00
FRAGILARIA PINNATA	3.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA ULNA	86.00
COCCONEIS PEDICULUS	14.00

APPENDIX D-4-2 (Continued)

SITE = 31 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	5.00
NAVICULA CRYPTOCEPHALA	49.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM	22.00
NAVICULA VIRIDULA	46.00
AMPHORA OVALIS VAR. PEDICULUS	16.00
CYMBELLA AFFINIS	11.00
CYMBELLA MICROCEPHALA	3.00
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA INTRICATUM	8.00
GOMPHONEMA OLIVACEUM	30.00
GOMPHONEMA VENTRICOSUM	5.00
NITZSCHIA ACICULARIS	19.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	27.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	146.00
NITZSCHIA PALEA	43.00
SURIRELLA OVATA	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-4-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	8.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	3.00
CHLOROPHYTA I	22.00
FLAGELLATE UNIDENTIFIED	40.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	19.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	14.00
FRAGILARIA VAUCHERIAE	11.00
SYNEDRA ULNA	84.00
COCCONEIS PEDICULUS	8.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	27.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA SALINARUM	5.00
NAVICULA TRIPUNCTATA	8.00

APPENDIX D-4-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA VIRIDULA	27.00
AMPHORA OVALIS	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	14.00
CYMBELLA VENTRICOSA	19.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	22.00
GOMPHONEMA VENTRICOSUM	5.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	84.00
NITZSCHIA LINEARIS	.05
NITZSCHIA PALEA	16.00
SURIRELLA OVATA	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-4-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	38.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.30
CLADOPHORA SPP	.08
ANKISTRODESMUS FALCATUS	5.00
COSMARIUM TURPINII	.02
CHLOROPHYTA I	40.00
FLAGELLATE UNIDENTIFIED	62.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	14.00
DIATOMA VULGARE	19.00
FRAGILARIA CROTONENSIS	8.00
FRAGILARIA PINNATA	14.00
SYNEDRA ULNA	30.00
COCCONEIS PEDICULUS	5.00
ACHNANTHES MINUTISSIMA	5.00
NAVICULA CRYPTOCEPHALA	22.00

APPENDIX D-4-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CUSPIDATA	.02
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	8.00
NAVICULA VIRIDULA	22.00
AMPHORA OVALIS	5.00
CYMBELLA AFFINIS	8.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	14.00
GOMPHONEMA PARVULUM	3.00
GOMPHONEMA VENTRICOSUM	5.00
NITZSCHIA CAPITELLATA	3.00
NITZSCHIA FRUSTULUM	24.00
NITZSCHIA HOLSATICA	103.00
NITZSCHIA PALEA	19.00
SURIRELLA OVATA	8.00

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	54.00
CHLOROPHYTA	
CHLOROPHYTA I	8.00
FLAGELLATE UNIDENTIFIED	38.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	16.00
FRAGILARIA CONSTRUENS	14.00
FRAGILARIA CROTONENSIS	8.00
FRAGILARIA PINNATA	16.00
FRAGILARIA VAUCHERIAE	19.00
SYNEDRA ULNA	46.00
COCCONEIS PLACENTULA	8.00
ACHNANTHES MINUTISSIMA	8.00
ANOMOEONEIS SPHAEROPHORA	3.00
NAVICULA CRYPTOCEPHALA	8.00

APPENDIX D-4-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	14.00
NAVICULA VIRIDULA	16.00
AMPHORA OVALIS	5.00
CYMBELLA VENTRICOSA	16.00
GOMPHONEMA OLIVACEUM	5.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	8.00
NITZSCHIA HOLSATICA	68.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	8.00
SURIRELLA OVALIS	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX B-4-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ULOTHRIX SPP	.10
MOUGEOTIA SPP	8.00
CHLOROPHYTA I	16.00
FLAGELLATE UNIDENTIFIED	54.00
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	3.00
FRAGILARIA CROTONENSIS	3.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	43.00
COCCONEIS PLACENTULA	5.00
ACHNANTHES MINUTISSIMA	5.00
NAVICULA CRYPTOCEPHALA	8.00
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	14.00
NAVICULA VIRIDULA	19.00
CYMBELLA AFFINIS	3.00
CYMBELLA VENTRICOSA	19.00
GOMPHONEMA INTRICATUM	5.00

APPENDIX D-4-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	8.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITELLATA	5.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	43.00
NITZSCHIA PALEA	19.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA 1	22.00
SCHIZOTHRIX CALCICOLA	40.00
CHLOROPHYTA	
CLADOPHORA SPP	.14
FLAGELLATE UNIDENTIFIED	65.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	14.00
STEPHANODISCUS ASTRAEA	3.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	14.00
FRAGILARIA CONSTRUENS	11.00
FRAGILARIA VAUCHERIAE	5.00
SYNEDRA AMPHICEPHALA	5.00
SYNEDRA ULNA	140.00
ACHNANTHES LANCEOLATA	3.00
PLEUROSIGMA DELICATULUM	.08
NAVICULA CRYPTOCEPHALA	30.00

APPENDIX D-4-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA PELLICULOSA	5.00
NAVICULA SALINARUM	11.00
NAVICULA TRIPUNCTATA	11.00
NAVICULA VIRIDULA	32.00
CYMBELLA AFFINIS	5.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	14.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA HOLSATICA	89.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	5.00
CYMATOPLEURA SOLEA	.04
SURIRELLA ANGUSTATA	3.00
SURIRELLA OVATA	3.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-4-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-4-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	19.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.56
CLADOPHORA SPP	.24
ANKISTRODESMUS FALCATUS	3.00
CHLOROPHYTA I	11.00
FLAGELLATE UNIDENTIFIED	81.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
DIATOMA VULGARE	11.00
FRAGILARIA PINNATA	5.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA AMPHICEPHALA	3.00
SYNEDRA ULNA	27.00
COCCONEIS PEDICULUS	8.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	8.00

APPENDIX D-4-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	8.00
NAVICULA PELLICULOSA	11.00
NAVICULA SALINARUM	3.00
NAVICULA VIRIDULA	5.00
AMPHORA OVALIS VAR. PEDICULUS	8.00
CYMBELLA AFFINIS	3.00
CYMBELLA VENTRICOSA	16.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	3.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITELLATA	19.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	16.00
NITZSCHIA HOLSATICA	40.00
NITZSCHIA PALEA	8.00

APPENDIX D-4-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	22.00
SCHIZOTHRIX CALCICOLA	14.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	1.40
CHLOROPHYTA I	14.00
FLAGELLATE UNIDENTIFIED	46.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	14.00
FRAGILARIA LEPTOSTAURON	5.00
FRAGILARIA PINNATA	11.00
FRAGILARIA VAUCHERIAE	3.00
HANNAEA ARCUS	3.00
SYNEDRA AMPHICEPHALA	5.00
SYNEDRA ULNA	40.00
ACHNANTHES MINUTISSIMA	3.00

APPENDIX D-4-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA PELLICULOSA	19.00
NAVICULA SALINARUM	3.00
NAVICULA VIRIDULA	16.00
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	14.00
GOMPHONEMA OLIVACEUM	5.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITELLATA	27.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA HOLSATICA	76.00
NITZSCHIA PALEA	11.00
SURIRELLA OVATA	8.00
EUGLENOPHYTA	
EUGLENA SPP	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	11.00

APPENDIX D-4-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	38.00
SCHIZOTHRIX CALCICOLA	35.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	11.00
CHLOROPHYTA I	16.00
FLAGELLATE UNIDENTIFIED	38.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	8.00
FRAGILARIA PINNATA	38.00
FRAGILARIA VAUCHERIAE	24.00
SYNEDRA AMPHICEPHALA	5.00
SYNEDRA ULNA	65.00
ACHNANTHES LANCEOLATA	3.00
RHOICOSPHENIA CURVATA	5.00
GYROSIGMA ACUMINATUM	.04

APPENDIX D-[illegible]-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	14.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM	22.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	24.00
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	14.00
CYMBELLA VENTRICOSA	14.00
GOMPHONEMA INTRICATUM	5.00
GOMPHONEMA OLIVACEUM	19.00
GOMPHONEMA VENTRICOSUM	5.00
EPITHEMIA SOREX	3.00
NITZSCHIA ACICULARIS	22.00
NITZSCHIA CAPITELLATA	19.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FONTICOLA	11.00
NITZSCHIA HOLSATICA	73.00
NITZSCHIA PALEA	5.00
SURIRELLA OVATA	8.00

RBOSP PROGRESS REP

APPENDIX D-5 -1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-5-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

CYANOPHYTA

- *Anabaena* spp.
- *Cyanophyta* I
- *Merismopedia glauca*
- *Oscillatoria tenuis*
- *Oscillatoria* spp.
- *Schizothrix calcicola*

CHLOROPHYTA

- Flagellate unidentified
- *Ulothrix subtilissima*
- *Ulothrix* spp.
- *Pandodrina morum*
- *Cladophora* spp.
- *Pediastrum duplex*
- *Pediastrum simplex*
- *Pediastrum simplex* var. *duodenarium*
- *Ankistrodesmus convolutus*
- *Akistrrodesmus pellucida*
- *Scenedesmus acuminatus*
- *Scenedesmus quadricauda*
- *Mougeotia* spp.
- *Spirogyra* spp.
- *Zygnema* spp.
- *Closterium leibleinii*
- *Closterium parvulum*
- *Closterium* spp.
- *Chlorophyta* I

CHRYSOPHYTA

- *Chrysophyta* II
- *Melosira granulata*
- *Bicoeca lacustris*
- *Thalassiosira fluviatilis*
- *Melosira varians*
- *Cyclotella meneghiniana*
- *Chrysidiastrum ocellatum*
- *Stephanodiscus tenuis*
- *Diatoma vulgare*
- *Meridion circulare*
- *Fragilaria crotonensis*
- *Fragilaria leptostauron*
- *Fragilaria pinnata*
- *Fragilaria vaucheriae*
- *Synedra amphicephala*
- *Synedra delicatissima*

Synedra famelica
Synedra minuscula
Synedra pulchella
Synedra tenera
Synedra ulna
Cocconeis pediculus
Cocconeis palcentula
Achnanthes lanceolata
Achnanthes minutissima
Rhoicosphenia curvata
Amphipleura pellucida
Gyrosigma acuminatum
Pleurosigma delicatulum
Anomoeoneis sphaerophora
Diploneis elliptica
Navicula arvensis
Navicula cryptocephala
Navicula cryptocephala var. veneta
Navicula cuspidata
Navicula gregaria
Navicula minima
Navicula pelliculosa
Navicula pupula
Navicula radiosa
Navicula salinarum
Navicula salinarum var. intermedia
Navicula tripunctata
Navicula viridula
Navicula sp. 2
Navicula sp. 5
Navicula sp. 6
Caloneis amphisbaena
Caloneis bacillum
Caloneis ventricosa
Pinnularia brebissonii
Pinnularia virdis
Amphora ovalis
Amphora ovalis var. pediculus
Cymbella affinis
Cymbella cistula
Cymbella mexicana
Cymbella microcephala
Cymbella sinuata
Cymbella tumida
Cymbella ventricosa
Gomphonema intricatum
Gomphonema lanceolatum
Gomphonema olivacum

Gomphonema parvulum
Gomphonema ventricosum
Amphiprora ornata
Epithemia sorex
Epithemia zebra
Rhopalodia gibba
Rhopalodia gibberula
Cylindrotheca gracilis
Hantzschia amphioxys
Nitzschia acicularis
Nitzschia apiculata
Nitzschia capitata
Nitzschia capitellata
Nitzschia denticula
Nitzschia dissipata
Nitzschia fonticola
Nitzschia frustulum
Nitzschia gracilis
Nitzschia holsatica
Nitzschia hungarica
Nitzschia latens
Nitzschia linearis
Nitzschia palea
Nitzschia vermicularis
Cymatopleura solea
Surirella angustata
Surirella ovata
Surirella ovalis

EUGLENOPHYTA

Euglena proxima
Euglena spp.

PYRRHOPHYTA

Ceratium hirundinella

RBOSP PROGRESS REPORT

APPENDIX D-5 -2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-5-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

Site = 01 Rep = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA 1	86.00
OSCILLATORIA SPP	3.00
CHLOROPHYTA	
ULOTHRIX SUBTILISSIMA	68.00
SPIROGYRA SPP	35.00
ZYGNEMA SPP	30.00
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	3.00
MERIDION CIRCULARE	11.00
FRAGILARIA VAUCHERIAE	24.00
SYNEDRA FAMELICA	8.00
SYNEDRA MINUSCULA	162.00
ACHNANTHES MINUTISSIMA	883.00
NAVICULA ARVENSIS	834.00
NAVICULA CRYPTOCEPHALA	30.00
NAVICULA VIRIDULA	3.00

RBOSP PROGRESS REPORT

APPENDIX D-5-2 (Continued)

SITE = 01 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	14.00
CALONEIS BACILLUM	5.00
CALONEIS VENTRICOSA	3.00
PINNULARIA VIRIDIS	59.00
CYMBELLA AFFINIS	3.00
CYMBELLA MICROCEPHALA	5.00
CYMBELLA TUMIDA	459.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA PALEA	

APPENDIX D-5-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	14.00
CHLOROPHYTA	
ULOTHRIX SUBTILISSIMA	27.00
PEDIASTRUM SIMPLEX VAR. DUODENARIUM	1.60
ANKISTRODESMUS FALCATUS	3.00
SPIROGYRA SPP	11.00
ZYGNEMA SPP	14.00
FLAGELLATE UNIDENTIFIED	97.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	5.00
MELOSIRA GRANULATA	8.00
MERIDION CIRCULARE	3.00
FRAGILARIA VAUCHERIAE	19.00
SYNEDRA FAMELICA	16.00
SYNEDRA MINUSCULA	265.00
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	459.00

APPENDIX D-5-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA ARVENSIS	559.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA SALINARUM	3.00
NAVICULA VIRIDULA	5.00
CALONEIS BACILLUM	14.00
PINNULARIA VIRIDIS	.36
CYMBELLA AFFINIS	43.00
GOMPHONEMA INTRICATUM	16.00
EPITHEMIA SOREX	14.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA DENTICULA	203.00
NITZSCHIA LINEARIS	8.00
NITZSCHIA PALEA	11.00

APPENDIX D-5-2 (Continued)

SITE = 02 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ULOTHRIX SUBTILISSIMA	3.00
ANKISTRODESMUS FALCATUS	1.00
FLAGELLATE UNIDENTIFIED	16.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	1.00
CYCLOTELLA MENEGHINIANA	1.00
STEPHANODISCUS TENUIS	1.00
FRAGILARIA VAUCHERIAE	2.00
SYNEDRA MINUSCULA	12.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	14.00
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	9.00
NAVICULA SP 2	1.00
CALONEIS BACILLUM	3.00
GOMPHONEMA INTRICATUM	1.00
HANTZSCHIA AMPHIOXYS	1.00
NITZSCHIA CAPITATA	5.00
NITZSCHIA GRACILIS	2.00

APPENDIX D-5-2 (Continued)

SITE = 02 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA PALEA	2.00
SURIRELLA OVATA	2.00
SURIRELLA OVALIS	1.00

APPENDIX D-5-2 (Continued)

SITE = 02 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ULOTHRIX SUBTILISSIMA	5.00
FLAGELLATE UNIDENTIFIED	23.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	1.00
SYNEDRA MINUSCULA	6.00
ACHNANTHES MINUTISSIMA	7.00
DIPLONEIS ELLIPTICA	1.00
NAVICULA CRYPTOCEPHALA	4.00
NAVICULA SP 2	1.00
CALONEIS BACILLUM	1.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA PARVULUM	1.00
EPITHEMIA SOREX	1.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA CAPITATA	1.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA LINEARIS	1.00
NITZSCHIA PALEA	3.00

APPENDIX D-5-2 (Continued)

SITE = 02 REP = 2

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	1.00

APPEND D-5-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	.24
CHLOROPHYTA	
CHLOROPHYTA I	32.00
FLAGELLATE UNIDENTIFIED	86.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	11.00
ACHNANTHES LANCEOLATA	11.00
ACHNANTHES MINUTISSIMA	54.00
PLEUROSIGMA DELICATULUM	5.00
ANOMOEONEIS SPHAEROPHORA	200.00
NAVICULA CRYPTOCEPHALA	259.00
NAVICULA GREGARIA	16.00
NAVICULA PELLICULOSA	27.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	16.00
NAVICULA SP 2	119.00
NAVICULA SP 6	16.00

APPENDIX D-5-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CALONEIS BACILLUM	5.00
CALONEIS VENTRICOSA	11.00
GOMPHONEMA PARVULUM	27.00
EPITHEMIA SOREX	22.00
NITZSCHIA CAPITATA	59.00
NITZSCHIA DISSIPATA	16.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	38.00
NITZSCHIA HOLSATICA	16.00
NITZSCHIA LINEARIS	16.00
NITZSCHIA PALEA	189.00
SURIRELLA OVATA	11.00
EUGLENOPHYTA	
EUGLENA SPP	59.00

APPENDIX D-5-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	5.00
CHLOROPHYTA	
CHLOROPHYTA I	92.00
FLAGELLATE UNIDENTIFIED	162.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	54.00
ACHNANTHES LANCEOLATA	16.00
ACHNANTHES MINUTISSIMA	108.00
ANOMOEONEIS SPHAEROPHORA	373.00
NAVICULA ARVENSIS	11.00
NAVICULA CRYPTOCEPHALA	432.00
NAVICULA GREGARIA	16.00
NAVICULA PELLICULOSA	32.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	5.00
NAVICULA SP 2	221.00
CALONEIS VENTRICOSA	43.00

APPENDIX D-5-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
PINNULARIA BREBISSONII	11.00
CYMBELLA MICROCEPHALA	11.00
EPITHEMIA SOREX	11.00
CYLINDROTHECA GRACILIS	5.00
NITZSCHIA CAPITATA	86.00
NITZSCHIA DENTICULA	86.00
NITZSCHIA DISSIPATA	16.00
NITZSCHIA FRUSTULUM	81.00
NITZSCHIA GRACILIS	27.00
NITZSCHIA HOLSATICA	49.00
NITZSCHIA LINEARIS	27.00
NITZSCHIA PALEA	194.00
SURIRELLA OVALIS	11.00
EUGLENOPHYTA	
EUGLENA SPP	130.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	22.00

APPENDIX D-5-2 (Continued)

SITE = 04 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	7.00
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	1.00
FRAGILARIA CROTONENSIS	3.00
ACHNANTHES LANCEOLATA	5.00
ACHNANTHES MINUTISSIMA	41.00
GYROSIGMA ACUMINATUM	.04
NAVICULA CRYPTOCEPHALA	151.00
NAVICULA MINIMA	1.00
NAVICULA PUPULA	1.00
NAVICULA SALINARUM	7.00
NAVICULA SP 2	16.00
CALONEIS VENTRICOSA	1.00
AMPHORA OVALIS	1.00
CYMBELLA AFFINIS	1.00
GOMPHONEMA OLIVACEUM	1.00
GOMPHONEMA PARVULUM	1.00
NITZSCHIA ACICULARIS	1.00
NITZSCHIA APICULATA	1.00

-- PR . APPENDIX D-5-2 (Continued)

SITE = 04 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA CAPITATA	28.00
NITZSCHIA DENTICULA	7.00
NITZSCHIA FRUSTULUM	4.00
NITZSCHIA LINEARIS	8.00
NITZSCHIA PALEA	23.00
SURIRELLA OVATA	3.00

APPEND D-5-2 (Continued)

SITE = 04 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
PEDIASTRUM SIMPLEX VAR. DUODENARIUM	.32
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	3.00
MERIDION CIRCULARE	3.00
SYNEDRA MINUSCULA	5.00
ACHNANTHES LANCEOLATA	11.00
ACHNANTHES MINUTISSIMA	65.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA CRYPTOCEPHALA	227.00
NAVICULA CUSPIDATA	3.00
NAVICULA SALINARUM	3.00
NAVICULA SP 2	32.00
CALONEIS BACILLUM	3.00
AMPHORA OVALIS	5.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA PARVULUM	5.00
CYLINDROTHECA GRACILIS	3.00

APPENDIX D-5-2 (Continued)

SITE = 04 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITATA	46.00
NITZSCHIA DENTICULA	8.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA LINEARIS	22.00
NITZSCHIA PALEA	49.00
SURIRELLA OVALIS	3.00

APPENDIX D-5 (Continued)

SITE = 05 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CHLOROPHYTA I	11.00
FLAGELLATE UNIDENTIFIED	38.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
COCCONEIS PEDICULUS	251.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	16.00
RHOICOSPHENIA CURVATA	5.00
PLEUROSIGMA DELICATULUM	11.00
NAVICULA CRYPTOCEPHALA	14.00
NAVICULA RADIOSA	3.00
CALONEIS BACILLUM	8.00
PINNULARIA VIRIDIS	3.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA PARVULUM	3.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA CAPITATA	8.00
NITZSCHIA HOLSATICA	8.00
NITZSCHIA PALEA	5.00

APPENDIX D-5-2 (Continued)

SITE = 05 REP = 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	6.00

APPENDIX D-5-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
CLOSTERIUM SPP	3.00
CHLOROPHYTA I	22.00
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
COCCONEIS PEDICULUS	208.00
ACHNANTHES MINUTISSIMA	16.00
PLEUROSIGMA DELICATULUM	22.00
NAVICULA CRYPTOCEPHALA	8.00
PINNULARIA VIRIDIS	.04
CYMBELLA MICROCEPHALA	3.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	3.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITATA	5.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	19.00
NITZSCHIA PALEA	11.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-5-2 (Continued)

SITE = 07 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	49.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
MERIDION CIRCULARE	3.00
SYNEDRA DELICATISSIMA	3.00
ACHNANTHES LANCEOLATA	8.00
ACHNANTHES MINUTISSIMA	791.00
GYROSIGMA ACUMINATUM	.96
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	140.00
NAVICULA CUSPIDATA	.02
NAVICULA VIRIDULA	6.00
NAVICULA SP 2	22.00
CALONEIS BACILLUM	3.00
PINNULARIA BREBISSONII	3.00
AMPHORA OVALIS	5.00
CYMBELLA AFFINIS	6.00
CYMBELLA MICROCEPHALA	3.00
GOMPHONEMA OLIVACEUM	11.00

APPENDIX B-5-2 (Continued)

SITE = 07 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
EPITHEMIA SOREX	8.00
NITZSCHIA CAPITATA	27.00
NITZSCHIA DENTICULA	5.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	16.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA HOLSATICA	6.00
NITZSCHIA LINEARIS	16.00
NITZSCHIA PALEA	38.00
SURIRELLA OVALIS	6.00

APPENDIX D-5-2 (Continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	3.00
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	43.00
ACHNANTHES LANCEOLATA	8.00
ACHNANTHES MINUTISSIMA	1056.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA ARVENSIS	5.00
NAVICULA CRYPTOCEPHALA	162.00
NAVICULA PELLICULOSA	3.00
NAVICULA SALINARUM	5.00
NAVICULA VIRIDULA	11.00
NAVICULA SP 2	22.00
CALONEIS BACILLUM	11.00
PINNULARIA BREBISSONII	.06
AMPHORA OVALIS	22.00

APPENDIX D-5-2 (Continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA AFFINIS	3.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	8.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITATA	22.00
NITZSCHIA DENTICULA	24.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	30.00
NITZSCHIA LINEARIS	35.00
NITZSCHIA PALEA	41.00
SURIRELLA OVATA	5.00

APPENDIX D-5-2 (Continued)

SITE = 06 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	14.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	170.00
ACHNANTHES LANCEOLATA	19.00
ACHNANTHES MINUTISSIMA	343.00
NAVICULA ARVENSIS	41.00
NAVICULA CRYPTOCEPHALA	35.00
NAVICULA SP 5	3.00
GOMPHONEMA OLIVACEUM	11.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA CAPITATA	3.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA PALEA	11.00

APPENDIX D-5-2 (Continued)

SITE = 08 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	8.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	165.00
FRAGILARIA VAUCHERIAE	5.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	78.00
NAVICULA ARVENSIS	41.00
NAVICULA CRYPTOCEPHALA	5.00
PINNULARIA BREBISSONII	.02
CYMBELLA AFFINIS	3.00
GOMPHONEMA INTRICATUM	11.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA PARVULUM	3.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITATA	3.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA PALEA	11.00
SURIRELLA OVATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 09 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CALOTHRIX SPP	11.00
CHLOROPHYTA	
CHLOROPHYTA 1	86.00
FLAGELLATE UNIDENTIFIED	38.00
CHRYSOPHYTA	
FRAGILARIA CROTONENSIS	38.00
ACHNANTHES LANCEOLATA	11.00
ACHNANTHES MINUTISSIMA	1102.00
GYROSIGMA ACUMINATUM	.50
NAVICULA ARVENSIS	32.00
NAVICULA CRYPTOCEPHALA	135.00
NAVICULA VIRIDULA	16.00
NAVICULA SP 2	22.00
CALONEIS BACILLUM	11.00
PINNULARIA BREBISSONII	5.00
AMPHORA OVALIS	5.00
CYMBELLA VENTRICOSA	5.00

APPENDIX D-5-2 (Continued)

SITE = 09 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA PARVULUM	5.00
RHOPALODIA GIBBERULA	5.00
CYLINDROTHECA GRACILIS	11.00
NITZSCHIA CAPITATA	49.00
NITZSCHIA DENTICULA	167.00
NITZSCHIA FRUSTULUM	43.00
NITZSCHIA GRACILIS	11.00
NITZSCHIA LINEARIS	38.00
NITZSCHIA PALEA	32.00
SURIRELLA OVATA	11.00
SURIRELLA OVALIS	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-5-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	108.00
OSCILLATORIA TENUIS	11.00
CHLOROPHYTA	
CLOSTERIUM PARVULUM	.04
CHLOROPHYTA I	65.00
FLAGELLATE UNIDENTIFIED	54.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	11.00
MERIDION CIRCULARE	5.00
FRAGILARIA CROTONENSIS	22.00
FRAGILARIA VAUCHERIAE	5.00
SYNEDRA AMPHICEPHALA	22.00
ACHNANTHES LANCEOLATA	11.00
ACHNANTHES MINUTISSIMA	1447.00
GYROSIGMA ACUMINATUM	2.20
NAVICULA ARVENSIS	11.00
NAVICULA CRYPTOCEPHALA	292.00

APPENDIX D-5-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CUSPIDATA	.08
NAVICULA PELLICULOSA	27.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	16.00
NAVICULA SP 2	22.00
CALONEIS BACILLUM	11.00
CALONEIS VENTRICOSA	16.00
PINNULARIA BREBISSONII	5.00
AMPHORA OVALIS	16.00
CYMBELLA AFFINIS	5.00
GOMPHONEMA OLIVACEUM	11.00
GOMPHONEMA PARVULUM	5.00
CYLINDROTHECA GRACILIS	5.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITATA	130.00
NITZSCHIA DENTICULA	86.00
NITZSCHIA FRUSTULUM	59.00
NITZSCHIA LINEARIS	54.00
NITZSCHIA PALEA	54.00
SURIRELLA ANGUSTATA	5.00

APPENDIX D-5-2 (Continued)

SITE = 12 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	1.30
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
ACHNANTHES LANCEOLATA	5.00
ACHNANTHES MINUTISSIMA	32.00
NAVICULA CRYPTOCEPHALA	46.00
NAVICULA VIRIDULA	3.00
NAVICULA SP 2	8.00
CALONEIS BACILLUM	3.00
NITZSCHIA CAPITATA	1242.00
NITZSCHIA DENTICULA	8.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA LINEARIS	11.00
NITZSCHIA PALEA	38.00

APPENDI -5-2 (Continued)

SITE = 12 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	3.06
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	43.00
CHRYSOPHYTA	
STEPHANODISCUS TENUIS	5.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	41.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	81.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	3.00
NAVICULA SP 2	14.00
NAVICULA SP 5	3.00
CALONEIS BACILLUM	14.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
HANTZSCHIA AMPHIOXYS	3.00
NITZSCHIA CAPITATA	1442.00

APPENDIX D-5-2 (Continued)

SITE = 12 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA DENTICULA	19.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	62.00

APPENDIX D-5-2 (Continued)

SITE = 13 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
PEDIASTRUM SIMPLEX VAR. DUODENARIUM	.32
ANKISTRODESMUS FALCATUS	3.00
SCENEDESMUS QUADRICAUDA	11.00
ZYGNEMA SPP	.40
FLAGELLATE UNIDENTIFIED	11.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	165.00
STEPHANODISCUS TENUIS	3.00
MERIDION CIRCULARE	5.00
FRAGILARIA VAUCHERIAE	14.00
ACHNANTHES LANCEOLATA	86.00
ACHNANTHES MINUTISSIMA	281.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	78.00
PINNULARIA VIRIDIS	.02
AMPHORA OVALIS	5.00
CYMBELLA MICROCEPHALA	3.00
GOMPHONEMA OLIVACEUM	8.00
GOMPHONEMA PARVULUM	3.00

APPENDIX D-5-2 (Continued)

SITE = 13 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA CAPITATA	14.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA PALEA	5.00
SURIRELLA OVATA	5.00

APPENDIX [illegible]-2 (Continued)

SITE = 13 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
PEDIASTRUM SIMPLEX VAR. DUODENARIUM	.64
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
CHRYSIDIASTRUM OCELLATUM	178.00
FRAGILARIA VAUCHERIAE	11.00
ACHNANTHES LANCEOLATA	49.00
ACHNANTHES MINUTISSIMA	435.00
GYROSIGMA ACUMINATUM	.04
NAVICULA ARVENSIS	8.00
NAVICULA CRYPTOCEPHALA	32.00
CALONEIS AMPHISBAENA	.02
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA PARVULUM	8.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITATA	5.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	3.00
NITZSCHIA PALEA	11.00

APPENDIX D-5-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	2.00
SCENEDESMUS QUADRICAUDA	2.00
CLOSTERIUM PARVULUM	.02
FLAGELLATE UNIDENTIFIED	48.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	7.00
SYNEDRA MINUSCULA	4.00
SYNEDRA TENERA	19.00
ACHNANTHES MINUTISSIMA	33.00
PLEUROSIGMA DELICATULUM	1.02
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA GREGARIA	2.00
PINNULARIA BREBISSONII	1.00
CYMBELLA AFFINIS	2.00
CYMBELLA MICROCEPHALA	5.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA PARVULUM	1.00
GOMPHONEMA VENTRICOSUM	2.00
NITZSCHIA ACICULARIS	4.00

APPENDIX D-5-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA APICULATA	1.00
NITZSCHIA CAPITATA	1.00
NITZSCHIA DENTICULA	6.00
NITZSCHIA PALEA	4.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	15.00

APPENDIX D-5-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	1.00
FLAGELLATE UNIDENTIFIED	45.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	31.00
SYNEDRA MINUSCULA	18.00
SYNEDRA TENERA	47.00
SYNEDRA ULNA	1.00
ACHNANTHES LANCEOLATA	5.00
ACHNANTHES MINUTISSIMA	72.00
PLEUROSIGMA DELICATULUM	.02
NAVICULA CRYPTOCEPHALA	26.00
NAVICULA CUSPIDATA	.02
NAVICULA GREGARIA	3.00
NAVICULA TRIPUNCTATA	1.00
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	9.00
CYMBELLA MICROCEPHALA	5.00
CYMBELLA VENTRICOSA	19.00
GOMPHONEMA INTRICATUM	1.00

APPENDI[illegible] J-5-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA ACICULARIS	1.00
NITZSCHIA CAPITATA	8.00
NITZSCHIA DENTICULA	16.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA PALEA	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	47.00

APPENDIX D-5-2 (Continued)

SITE = 17 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	8467.00
CHLOROPHYTA	
CHLOROPHYTA I	3132.00
FLAGELLATE UNIDENTIFIED	8338.00
CHRYSOPHYTA	
CHRYSOPHYTA II	3726.00
CYCLOTELLA MENEGHINIANA	43.00
SYNEDRA AMPHICEPHALA	22.00
SYNEDRA DELICATISSIMA	76.00
NAVICULA ARVENSIS	43.00
NAVICULA CRYPTOCEPHALA	227.00
NAVICULA VIRIDULA	97.00
CALONEIS BACILLUM	22.00
CALONEIS VENTRICOSA	32.00
AMPHORA OVALIS VAR. *PEDICULUS*	22.00
GOMPHONEMA INTRICATUM	22.00
HANTZSCHIA AMPHIOXYS	22.00

APPENDIX D-5-2 (Continued)

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                         SITE = 17 REP = 1

        TAXON                                                    DENSITY
                                                                (CELLS/ML)


   CHRYSOPHYTA

   NITZSCHIA CAPITELLATA                                          1296.00
   --------- -----------
   NITZSCHIA FRUSTULUM                                              97.00
   --------- ---------
   NITZSCHIA GRACILIS                                               32.00
   --------- --------
   NITZSCHIA PALEA                                                 173.00
   --------- -----


   EUGLENOPHYTA

   EUGLENA SPP                                                     108.00
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APPENDIX D-5-2 (Continued)

SITE = 17 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	9083.00
MERISMOPEDIA GLAUCA	864.00
OSCILLATORIA TENUIS	22.00
CHLOROPHYTA	
CHLOROPHYTA I	3110.00
FLAGELLATE UNIDENTIFIED	1254.00
CHRYSOPHYTA	
CHRYSOPHYTA II	3218.00
BICOECA LACUSTRIS	86.00
CYCLOTELLA MENEGHINIANA	140.00
SYNEDRA AMPHICEPHALA	32.00
SYNEDRA DELICATISSIMA	22.00
NAVICULA ARVENSIS	105.00
NAVICULA CRYPTOCEPHALA	130.00
NAVICULA TRIPUNCTATA	22.00
NAVICULA VIRIDULA	65.00
NAVICULA SP 2	22.00

APPENDIX [illegible]-2 (Continued)

SITE = 17 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CALONEIS BACILLUM	43.00
CALONEIS VENTRICOSA	22.00
CYMBELLA AFFINIS	11.00
NITZSCHIA CAPITELLATA	778.00
NITZSCHIA FRUSTULUM	108.00
NITZSCHIA PALEA	151.00
EUGLENOPHYTA	
EUGLENA SPP	97.00

APPENDIX D-5-2 (Continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	86.00
OSCILLATORIA TENUIS	19.00
SCHIZOTHRIX CALCICOLA	19.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
ULOTHRIX SUBTILISSIMA	8.00
CHLOROPHYTA I	22.00
FLAGELLATE UNIDENTIFIED	57.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	76.00
CYCLOTELLA MENEGHINIANA	11.00
ACHNANTHES MINUTISSIMA	3.00
RHOICOSPHENIA CURVATA	11.00
PLEUROSIGMA DELICATULUM	19.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA SP 2	3.00
CALONEIS BACILLUM	3.00

APPENDIX 5-2 (Continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	35.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA PARVULUM	5.00
RHOPALODIA GIBBA	3.00
RHOPALODIA GIBBERULA	3.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA ACICULARIS	41.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	65.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA DISSIPATA	11.00
NITZSCHIA FONTICOLA	30.00
NITZSCHIA FRUSTULUM	267.00
NITZSCHIA GRACILIS	19.00
NITZSCHIA HOLSATICA	54.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	49.00
SURIRELLA OVATA	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-5-2 (Continued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CYANOPHYTA I	389.00
OSCILLATORIA TENUIS	5.00
SCHIZOTHRIX CALCICOLA	76.00
ANABAENA SPP	5.00
CHLOROPHYTA	
CHLOROPHYTA I	130.00
FLAGELLATE UNIDENTIFIED	81.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	38.00
CYCLOTELLA MENEGHINIANA	5.00
STEPHANODISCUS TENUIS	5.00
ACHNANTHES LANCEOLATA	5.00
ACHNANTHES MINUTISSIMA	27.00
RHOICOSPHENIA CURVATA	22.00
PLEUROSIGMA DELICATULUM	1.20
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA SALINARUM	5.00

APPENDIX D-[illegible]-2 (Continued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA VIRIDULA	5.00
CALONEIS BACILLUM	11.00
CYMBELLA VENTRICOSA	16.00
GOMPHONEMA INTRICATUM	5.00
GOMPHONEMA LANCEOLATUM	16.00
GOMPHONEMA OLIVACEUM	5.00
NITZSCHIA ACICULARIS	113.00
NITZSCHIA CAPITELLATA	178.00
NITZSCHIA FONTICOLA	237.00
NITZSCHIA FRUSTULUM	232.00
NITZSCHIA GRACILIS	11.00
NITZSCHIA HOLSATICA	221.00
NITZSCHIA LINEARIS	5.00
NITZSCHIA PALEA	119.00
EUGLENOPHYTA	
EUGLENA SPP	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-5-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	3.00
SPIROGYRA SPP	1.36
FLAGELLATE UNIDENTIFIED	8.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	97.00
SYNEDRA PULCHELLA	9.00
ACHNANTHES MINUTISSIMA	28.00
NAVICULA CRYPTOCEPHALA	4.00
NAVICULA SALINARUM	1.00
NAVICULA VIRIDULA	7.00
NAVICULA SP 2	1.00
CYMBELLA VENTRICOSA	4.00
GOMPHONEMA PARVULUM	3.00
AMPHIPRORA ORNATA	1.00
EPITHEMIA SOREX	4.00
NITZSCHIA CAPITELLATA	1.00
NITZSCHIA DENTICULA	4.00
NITZSCHIA FONTICOLA	9.00
NITZSCHIA FRUSTULUM	8.00

APPENDIX D-5-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	8.00
NITZSCHIA PALEA	11.00

APPENDIX D-5-2 (Continued)

SITE = 20 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	14.00
SPIROGYRA SPP	14.00
FLAGELLATE UNIDENTIFIED	19.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	11.00
CYCLOTELLA MENEGHINIANA	313.00
SYNEDRA FAMELICA	5.00
SYNEDRA PULCHELLA	35.00
ACHNANTHES MINUTISSIMA	35.00
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA SALINARUM	5.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	11.00
CYMBELLA VENTRICOSA	32.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA PARVULUM	11.00
AMPHIPRORA ORNATA	3.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	3.00

APPENDIX [illegible]5-2 (Continued)

```
                                SITE = 20 REP = 2
        TAXON                                                             DENSITY
                                                                        (CELLS/ML)

CHRYSOPHYTA

NITZSCHIA FONTICULA                                                        19.00
--------- ---------
NITZSCHIA FRUSTULUM                                                        16.00
--------- ---------
NITZSCHIA HOLSATICA                                                        43.00
--------- ---------
NITZSCHIA PALEA                                                            24.00
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APPENDIX D-5-2 (Continued)

SITE = 21 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS CONVOLUTUS	5.00
ANKISTRODESMUS FALCATUS	14.00
SPIROGYRA SPP	24.00
FLAGELLATE UNIDENTIFIED	30.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	8.00
CYCLOTELLA MENEGHINIANA	238.00
SYNEDRA PULCHELLA	24.00
ACHNANTHES MINUTISSIMA	27.00
ANOMOEONEIS SPHAEROPHORA	5.00
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA CUSPIDATA	.02
NAVICULA VIRIDULA	35.00
CYMBELLA AFFINIS	3.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA INTRICATUM	14.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA PARVULUM	3.00
AMPHIPRORA ORNATA	3.00

APPENDIX [illegible]-2 (Continued)

SITE = 21 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
EPITHEMIA SOREX	5.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA APICULATA	8.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA FONTICOLA	8.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	11.00
NITZSCHIA LATENS	5.00
NITZSCHIA PALEA	22.00
SURIRELLA OVATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 21 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS CONVOLUTUS	3.00
ANKISTRODESMUS FALCATUS	11.00
SPIROGYRA SPP	12.56
FLAGELLATE UNIDENTIFIED	43.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	335.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA FAMELICA	3.00
SYNEDRA MINUSCULA	3.00
SYNEDRA PULCHELLA	35.00
ACHNANTHES MINUTISSIMA	24.00
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA VIRIDULA	16.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	8.00
GOMPHONEMA PARVULUM	3.00
AMPHIPRORA ORNATA	3.00
NITZSCHIA APICULATA	3.00

APPENDIX B-5-2 (Continued)

SITE = 21 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA FONTICOLA	22.00
NITZSCHIA FRUSTULUM	24.00
NITZSCHIA HOLSATICA	76.00
NITZSCHIA LATENS	14.00
NITZSCHIA PALEA	35.00

APPENDIX D-5-2 (Continued)

SITE = 22 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	8.00
FLAGELLATE UNIDENTIFIED	19.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	41.00
SYNEDRA FAMELICA	5.00
SYNEDRA PULCHELLA	3.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	5.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA PARVULUM	3.00
AMPHIPRORA ORNATA	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	73.00
NITZSCHIA FONTICOLA	8.00
NITZSCHIA FRUSTULUM	16.00
NITZSCHIA GRACILIS	5.00

APPENDIX [illegible]-5-2 (Continued)

SITE = 22 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	54.00
NITZSCHIA LATENS	97.00
NITZSCHIA VERMICULARIS	3.00

APPENDIX D-5-2 (Continued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	19.00
FLAGELLATE UNIDENTIFIED	14.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	54.00
SYNEDRA FAMELICA	19.00
SYNEDRA PULCHELLA	8.00
ACHNANTHES MINUTISSIMA	14.00
PLEUROSIGMA DELICATULUM	.12
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA VIRIDULA	14.00
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA OLIVACEUM	3.00
CYLINDROTHECA GRACILIS	8.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	124.00
NITZSCHIA FONTICOLA	11.00
NITZSCHIA FRUSTULUM	16.00

APPENDIX D-5-2 (Continued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA GRACILIS	6.00
NITZSCHIA HOLSATICA	140.00
NITZSCHIA HUNGARICA	3.00
NITZSCHIA LATENS	335.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-5-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	19.00
NAVICULA VIRIDULA	41.00
CALONEIS BACILLUM	3.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA AFFINIS	22.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA PARVULUM	3.00
GOMPHONEMA VENTRICOSUM	5.00
EPITHEMIA SOREX	321.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	8.00
NITZSCHIA CAPITELLATA	16.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	154.00
NITZSCHIA GRACILIS	11.00
NITZSCHIA HOLSATICA	27.00
NITZSCHIA LINEARIS	8.00
NITZSCHIA PALEA	14.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-[illegible]-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	3.00
ANABAENA SPP	3.00
CHLOROPHYTA	
ULOTHRIX SUBTILISSIMA	5.00
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	24.00
DIATOMA VULGARE	19.00
FRAGILARIA LEPTOSTAURON	11.00
FRAGILARIA PINNATA	11.00
FRAGILARIA VAUCHERIAE	11.00
SYNEDRA DELICATISSIMA	8.00
COCCONEIS PEDICULUS	14.00
ACHNANTHES MINUTISSIMA	38.00
NAVICULA CRYPTOCEPHALA	38.00
NAVICULA SALINARUM	97.00

APPENDIX D-5-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	19.00
NAVICULA VIRIDULA	41.00
CALONEIS BACILLUM	3.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA AFFINIS	22.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA PARVULUM	3.00
GOMPHONEMA VENTRICOSUM	5.00
EPITHEMIA SOREX	321.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	6.00
NITZSCHIA CAPITELLATA	16.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	154.00
NITZSCHIA GRACILIS	11.00
NITZSCHIA HOLSATICA	27.00
NITZSCHIA LINEARIS	8.00
NITZSCHIA PALEA	14.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-5-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	5.00
ANABAENA SPP	11.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.72
ANKISTRODESMUS FALCATUS	8.00
CHLOROPHYTA I	14.00
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	65.00
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	11.00
FRAGILARIA LEPTOSTAURON	5.00
FRAGILARIA PINNATA	3.00
SYNEDRA DELICATISSIMA	16.00
COCCONEIS PEDICULUS	5.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	3.00

APPENDIX D-5-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA PUPULA	8.00
NAVICULA SALINARUM	68.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	35.00
CALONEIS AMPHISBAENA	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	16.00
CYMBELLA VENTRICOSA	16.00
GOMPHONEMA OLIVACEUM	16.00
GOMPHONEMA VENTRICOSUM	8.00
EPITHEMIA SOREX	284.00
NITZSCHIA CAPITATA	22.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FONTICOLA	95.00
NITZSCHIA FRUSTULUM	100.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA HOLSATICA	16.00
NITZSCHIA LINEARIS	8.00
NITZSCHIA PALEA	19.00
CYMATOPLEURA SOLEA	.02

APPENDIX D[illegible]-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
SURIRELLA OVATA	8.00
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APPENDIX D-5-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
STIGEOCLONIUM SPP	.44
FLAGELLATE UNIDENTIFIED	14.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	8.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	5.00
SYNEDRA PULCHELLA	3.00
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	5.00
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA SALINARUM	35.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	16.00
CYMBELLA AFFINIS	3.00
CYMBELLA SINUATA	5.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	5.00
EPITHEMIA SOREX	130.00
RHOPALODIA GIBBA	3.00

APPENDIX D-5-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITATA	8.00
NITZSCHIA DISSIPATA	8.00
NITZSCHIA FRUSTULUM	62.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA PALEA	3.00
CYMATOPLEURA SOLEA	.02

APPENDIX D-5-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA SPP	5.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	5.00
FLAGELLATE UNIDENTIFIED	27.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
DIATOMA VULGARE	3.00
FRAGILARIA PINNATA	43.00
FRAGILARIA VAUCHERIAE	8.00
SYNEDRA DELICATISSIMA	5.00
GYROSIGMA ACUMINATUM	.06
PLEUROSIGMA DELICATULUM	.02
NAVICULA CRYPTOCEPHALA	35.00
NAVICULA CUSPIDATA	.02
NAVICULA SALINARUM	46.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	11.00

APPENDIX [illegible]-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CALONEIS AMPHISBAENA	.08
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA AFFINIS	11.00
CYMBELLA CISTULA	3.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA VENTRICOSUM	8.00
EPITHEMIA SOREX	294.00
RHOPALODIA GIBBA	8.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITATA	5.00
NITZSCHIA DISSIPATA	11.00
NITZSCHIA FRUSTULUM	46.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA HOLSATICA	11.00
NITZSCHIA LINEARIS	5.00
NITZSCHIA PALEA	8.00

APPENDIX D-5-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	5.00
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	8.00
DIATOMA VULGARE	11.00
FRAGILARIA PINNATA	19.00
FRAGILARIA VAUCHERIAE	14.00
SYNEDRA DELICATISSIMA	3.00
SYNEDRA MINUSCULA	5.00
ACHNANTHES MINUTISSIMA	5.00
NAVICULA CRYPTOCEPHALA	8.00
NAVICULA PUPULA	3.00
NAVICULA TRIPUNCTATA	11.00
NAVICULA VIRIDULA	51.00
CALONEIS BACILLUM	3.00

APPENDIX D-5-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA AFFINIS	11.00
CYMBELLA MEXICANA	3.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA VENTRICOSUM	19.00
EPITHEMIA SOREX	138.00
NITZSCHIA DISSIPATA	14.00
NITZSCHIA FRUSTULUM	41.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	8.00
SURIRELLA OVATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 25 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	3.00
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	14.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	5.00
FRAGILARIA LEPTOSTAURON	3.00
SYNEDRA DELICATISSIMA	3.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA SALINARUM	49.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	19.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	16.00
GOMPHONEMA OLIVACEUM	11.00
GOMPHONEMA VENTRICOSUM	8.00
EPITHEMIA SOREX	211.00

APPENDIX D-5-2 (Continued)

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SITE = 25 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	5.00
RHOPALODIA GIBBERULA	3.00
NITZSCHIA ACICULARIS	8.00
NITZSCHIA CAPITATA	8.00
NITZSCHIA DISSIPATA	49.00
NITZSCHIA FRUSTULUM	8.00
NITZSCHIA GRACILIS	16.00
NITZSCHIA HOLSATICA	5.00
NITZSCHIA PALEA	
CRYPTOPHYTA	3.00
CRYPTOMONAS EROSA	

APPENDIX D-5-2 (Continued)

SITE = 26 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	14.00
CALOTHRIX SPP	8.00
CHLOROPHYTA	
CLOSTERIUM LEIBLEINII	.12
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
MELOSIRA VARIANS	5.00
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	11.00
FRAGILARIA PINNATA	8.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	11.00
COCCONEIS PEDICULUS	8.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA CRYPTOCEPHALA	30.00
NAVICULA SALINARUM	81.00
NAVICULA TRIPUNCTATA	11.00

APPENDIX D-5-2 (Continued)

SITE = 26 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA VIRIDULA	30.00
CALONEIS AMPHISBAENA	.14
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	30.00
CYMBELLA MEXICANA	.16
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA PARVULUM	3.00
GOMPHONEMA VENTRICOSUM	16.00
EPITHEMIA SOREX	370.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITATA	8.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FRUSTULUM	84.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA HOLSATICA	32.00
NITZSCHIA PALEA	14.00
NITZSCHIA VERMICULARIS	.02
CYMATOPLEURA SOLEA	.06

APPENDIX D-5-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	22.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
PEDIASTRUM SIMPLEX	.64
CLOSTERIUM LEIBLEINII	3.00
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	43.00
STEPHANODISCUS TENUIS	8.00
DIATOMA VULGARE	11.00
FRAGILARIA PINNATA	19.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	5.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES MINUTISSIMA	5.00
NAVICULA CRYPTOCEPHALA	38.00
NAVICULA SALINARUM	38.00

APPENDIX D-5-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	30.00
NAVICULA VIRIDULA	43.00
CALONEIS AMPHISBAENA	.13
CYMBELLA AFFINIS	16.00
CYMBELLA VENTRICOSA	19.00
GOMPHONEMA OLIVACEUM	19.00
GOMPHONEMA VENTRICOSUM	27.00
EPITHEMIA SOREX	564.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	6.00
NITZSCHIA APICULATA	8.00
NITZSCHIA CAPITELLATA	5.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FRUSTULUM	149.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA HOLSATICA	27.00
NITZSCHIA PALEA	16.00
NITZSCHIA VERMICULARIS	.06
CYMATOPLEURA SOLEA	.08
SURIRELLA OVATA	5.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

APPENDIX D-5-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-5-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	3.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
FLAGELLATE UNIDENTIFIED	27.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	38.00
STEPHANODISCUS TENUIS	3.00
FRAGILARIA LEPTOSTAURON	11.00
COCCONEIS PEDICULUS	5.00
ACHNANTHES MINUTISSIMA	11.00
PLEUROSIGMA DELICATULUM	.04
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA CUSPIDATA	.02
NAVICULA SALINARUM	86.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	32.00
CALONEIS AMPHISBAENA	3.00

APPENDIX D-5-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CALONEIS BACILLUM	5.00
AMPHORA OVALIS VAR. PEDICULUS	8.00
CYMBELLA AFFINIS	3.00
CYMBELLA MEXICANA	.12
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA VENTRICOSUM	14.00
EPITHEMIA SOREX	327.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITATA	14.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FONTICOLA	5.00
NITZSCHIA FRUSTULUM	119.00
NITZSCHIA GRACILIS	8.00
NITZSCHIA HOLSATICA	22.00
NITZSCHIA LINEARIS	5.00
NITZSCHIA PALEA	19.00
CYMATOPLEURA SOLEA	.10
EUGLENOPHYTA	
EUGLENA SPP	.06

APPENDIX D-5-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	3.00
CHLOROPHYTA	
PEDIASTRUM SIMPLEX VAR. DUODENARIUM	.32
SCENEDESMUS ACUMINATUS	22.00
CLOSTERIUM PARVULUM	.05
FLAGELLATE UNIDENTIFIED	27.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	16.00
DIATOMA VULGARE	8.00
FRAGILARIA LEPTOSTAURON	32.00
FRAGILARIA VAUCHERIAE	14.00
SYNEDRA DELICATISSIMA	6.00
ACHNANTHES MINUTISSIMA	8.00
NAVICULA CRYPTOCEPHALA	35.00
NAVICULA SALINARUM	84.00
NAVICULA TRIPUNCTATA	11.00

APPENDIX D-5-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA VIRIDULA	41.00
CALONEIS AMPHISBAENA	.10
AMPHORA OVALIS VAR. PEDICULUS	8.00
CYMBELLA AFFINIS	19.00
CYMBELLA MEXICANA	.10
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	14.00
EPITHEMIA SOREX	297.00
EPITHEMIA ZEBRA	5.00
NITZSCHIA APICULATA	5.00
NITZSCHIA DISSIPATA	27.00
NITZSCHIA FRUSTULUM	78.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA HOLSATICA	5.00
NITZSCHIA PALEA	16.00
CYMATOPLEURA SOLEA	.02
SURIRELLA OVATA	3.00
PYRRHOPHYTA	
CERATIUM HIRUNDINELLA	.02

APPENDIX D-5-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-5-2 (Continued)

SITE = 28 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	1.70
OSCILLATORIA SPP	5.00
ANABAENA SPP	8.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	8.00
MOUGEOTIA SPP	.40
CLOSTERIUM PARVULUM	.24
CHLOROPHYTA I	27.00
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
MELOSIRA VARIANS	3.00
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	5.00
STEPHANODISCUS TENUIS	3.00
FRAGILARIA LEPTOSTAURON	24.00
FRAGILARIA PINNATA	32.00

APPENDIX D-5-2 (Continued)

SITE = 28 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	8.00
SYNEDRA DELICATISSIMA	3.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES MINUTISSIMA	3.00
GYROSIGMA ACUMINATUM	.04
PLEUROSIGMA DELICATULUM	.02
NAVICULA ARVENSIS	8.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA SALINARUM	84.00
NAVICULA VIRIDULA	19.00
CALONEIS AMPHISBAENA	.08
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	22.00
CYMBELLA MEXICANA	3.00
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	14.00
EPITHEMIA SOREX	338.00
NITZSCHIA ACICULARIS	8.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITATA	6.00

APPENDIX D-5-2 (Continued)

SITE = 28 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYIA	
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FRUSTULUM	143.00
NITZSCHIA GRACILIS	11.00
NITZSCHIA HOLSATICA	19.00
NITZSCHIA PALEA	32.00
SURIRELLA OVATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 28 REP = 2

TAXON	DENSITY (CELLS/ML)
CHLOROPHYTA	
PANDORINA MORUM	86.00
ANKISTRODESMUS FALCATUS	5.00
CLOSTERIUM PARVULUM	.04
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	8.00
DIATOMA VULGARE	3.00
FRAGILARIA LEPTOSTAURON	8.00
SYNEDRA DELICATISSIMA	3.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA SALINARUM	46.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	24.00
CALONEIS AMPHISBAENA	.04
CALONEIS BACILLUM	3.00
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	16.00

APPENDIX D-5-2 (Continued)

SITE = 28 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA MEXICANA	.10
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	8.00
GOMPHONEMA VENTRICOSUM	6.00
EPITHEMIA SOREX	170.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FRUSTULUM	97.00
NITZSCHIA HOLSATICA	32.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	11.00
CYMATOPLEURA SOLEA	.02

APPENDIX D-5-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	5.00
SCHIZOTHRIX CALCICOLA	16.00
ANABAENA SPP	11.00
CHLOROPHYTA	
MOUGEOTIA SPP	.74
CLOSTERIUM PARVULUM	3.00
FLAGELLATE UNIDENTIFIED	43.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	16.00
STEPHANODISCUS TENUIS	3.00
FRAGILARIA LEPTOSTAURON	24.00
FRAGILARIA PINNATA	3.00
FRAGILARIA VAUCHERIAE	16.00
SYNEDRA DELICATISSIMA	5.00
ACHNANTHES MINUTISSIMA	11.00
NAVICULA CRYPTOCEPHALA	35.00
NAVICULA PUPULA	3.00

APPENDIX D-5-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA SALINARUM	95.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	41.00
CALONEIS AMPHISBAENA	.20
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	11.00
CYMBELLA MEXICANA	.24
CYMBELLA SINUATA	5.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA INTRICATUM	3.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	14.00
EPITHEMIA SOREX	354.00
RHOPALODIA GIBBA	8.00
NITZSCHIA ACICULARIS	14.00
NITZSCHIA CAPITELLATA	19.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FRUSTULUM	122.00
NITZSCHIA GRACILIS	14.00
NITZSCHIA HOLSATICA	24.00
NITZSCHIA PALEA	27.00

APPENDIX [illegible]5-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
SURIRELLA OVATA	5.00

APPENDIX D-5-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	11.00
CALOTHRIX SPP	8.00
CHLOROPHYTA	
CLOSTERIUM PARVULUM	.12
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	8.00
CYCLOTELLA MENEGHINIANA	16.00
FRAGILARIA LEPTOSTAURON	3.00
FRAGILARIA PINNATA	57.00
FRAGILARIA VAUCHERIAE	5.00
SYNEDRA ULNA	5.00
ACHNANTHES MINUTISSIMA	8.00
AMPHIPLEURA PELLUCIDA	5.00
GYROSIGMA ACUMINATUM	.10
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA SALINARUM	92.00

APPENDIX D-5-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	27.00
CALONEIS AMPHISBAENA	3.00
CALONEIS BACILLUM	3.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA AFFINIS	14.00
CYMBELLA MEXICANA	.24
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	11.00
GOMPHONEMA VENTRICOSUM	3.00
EPITHEMIA SOREX	351.00
RHOPALODIA GIBBA	8.00
NITZSCHIA ACICULARIS	8.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	14.00
NITZSCHIA DISSIPATA	19.00
NITZSCHIA FRUSTULUM	116.00
NITZSCHIA GRACILIS	14.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA HUNGARICA	3.00
NITZSCHIA LINEARIS	11.00

APPENDIX D-5-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA PALEA	16.00
CYMATOPLEURA SOLEA	.06
SURIRELLA OVATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	16.00
CHLOROPHYTA	
ANKISTRODESMUS CONVOLUTUS	5.00
CHLOROPHYTA I	11.00
FLAGELLATE UNIDENTIFIED	5.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
STEPHANODISCUS TENUIS	5.00
DIATOMA VULGARE	3.00
FRAGILARIA LEPTOSTAURON	11.00
SYNEDRA DELICATISSIMA	5.00
SYNEDRA ULNA	5.00
COCCONEIS PLACENTULA	8.00
NAVICULA CRYPTOCEPHALA VAR. VENETA	5.00
NAVICULA CUSPIDATA	3.00
NAVICULA SALINARUM VAR. INTERMEDIA	119.00
NAVICULA TRIPUNCTATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMBELLA AFFINIS	3.00
GOMPHONEMA OLIVACEUM	5.00
EPITHEMIA SOREX	508.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	8.00
NITZSCHIA FONTICOLA	14.00
NITZSCHIA FRUSTULUM	70.00
NITZSCHIA HOLSATICA	14.00
SURIRELLA OVALIS	3.00

APPENDIX D-5-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	.10
CHLOROPHYTA	
CLOSTERIUM PARVULUM	.06
CHLOROPHYTA I	.06
FLAGELLATE UNIDENTIFIED	.12
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	16.00
STEPHANODISCUS TENUIS	3.00
FRAGILARIA LEPTOSTAURON	11.00
SYNEDRA DELICATISSIMA	.18
SYNEDRA ULNA	.02
COCCONEIS PLACENTULA	3.00
GYROSIGMA ACUMINATUM	.02
NAVICULA CRYPTOCEPHALA VAR. VENETA	3.00
NAVICULA SALINARUM VAR. INTERMEDIA	62.00
NAVICULA TRIPUNCTATA	3.00
CALONEIS AMPHISBAENA	.1

APPENDIX D-5-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	5.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	3.00
EPITHEMIA SOREX	297.00
RHOPALODIA GIBBA	5.00
NITZSCHIA CAPITELLATA	3.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	24.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA HOLSATICA	3.00
NITZSCHIA PALEA	3.00
NITZSCHIA VERMICULARIS	.02
CYMATOPLEURA SOLEA	.02
SURIRELLA OVALIS	.02
EUGLENOPHYTA	
EUGLENA SPP	.04
CRYPTOPHYTA	
CRYPTOMONAS EROSA	.04

APPENDIX D-5-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	8.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
ULOTHRIX SPP	.12
STIGEOCLONIUM SPP	.18
CLADOPHORA SPP	.24
PEDIASTRUM SIMPLEX	.54
SCENEDESMUS QUADRICAUDA	11.00
CLOSTERIUM PARVULUM	.44
CHLOROPHYTA I	14.00
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	3.00
CYCLOTELLA MENEGHINIANA	22.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	14.00
FRAGILARIA LEPTOSTAURON	14.00

APPENDIX D-5-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
FRAGILARIA PINNATA	16.00
FRAGILARIA VAUCHERIAE	5.00
SYNEDRA DELICATISSIMA	3.00
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	5.00
GYROSIGMA ACUMINATUM	.06
PLEUROSIGMA DELICATULUM	.06
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA SALINARUM	105.00
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	30.00
CALONEIS AMPHISBAENA	.10
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	16.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA VENTRICOSUM	24.00
EPITHEMIA SOREX	405.00
RHOPALODIA GIBBA	3.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA APICULATA	3.00

APPENDIX [illegible]-5-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	19.00
NITZSCHIA DISSIPATA	5.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	6.00
NITZSCHIA GRACILIS	11.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	16.00
NITZSCHIA VERMICULARIS	.02
CYMATOPLEURA SOLEA	.06
SURIRELLA OVATA	6.00
EUGLENOPHYTA	
EUGLENA SPP	3.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX D-5-2 (Continued)

SITE = 31 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	5.00
ANABAENA SPP	8.00
CHLOROPHYTA	
ULOTHRIX SPP	.20
STIGEOCLONIUM SPP	.34
CLADOPHORA SPP	.60
ANKISTRODESMUS FALCATUS	3.00
CLOSTERIUM PARVULUM	.08
FLAGELLATE UNIDENTIFIED	27.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	8.00
DIATOMA VULGARE	3.00
SYNEDRA DELICATISSIMA	3.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA PUPULA	3.00
NAVICULA SALINARUM	68.00

APPENDIX 5-2 (Continued)

SITE = 31 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	8.00
NAVICULA VIRIDULA	22.00
CYMBELLA AFFINIS	11.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA OLIVACEUM	8.00
GOMPHONEMA VENTRICOSUM	3.00
EPITHEMIA SOREX	130.00
RHOPALODIA GIBBA	3.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	14.00
NITZSCHIA FRUSTULUM	73.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA HOLSATICA	11.00
NITZSCHIA HUNGARICA	3.00
NITZSCHIA PALEA	3.00
CYMATOPLEURA SOLEA	.08
SURIRELLA OVATA	3.00
EUGLENOPHYTA	
EUGLENA PROXIMA	3.00

APPENDIX D-5-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	3.00
ANABAENA SPP	11.00
CALOTHRIX SPP	5.00
CHLOROPHYTA	
CLOSTERIUM PARVULUM	.16
CHLOROPHYTA I	8.00
FLAGELLATE UNIDENTIFIED	70.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	16.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	3.00
FRAGILARIA VAUCHERIAE	3.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA CUSPIDATA	.02
NAVICULA SALINARUM	89.00

APPENDIX D-5-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	11.00
NAVICULA VIRIDULA	19.00
CALONEIS AMPHISBAENA	.04
CYMBELLA AFFINIS	16.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA OLIVACEUM	19.00
GOMPHONEMA VENTRICOSUM	8.00
EPITHEMIA SOREX	273.00
RHOPALODIA GIBBA	6.00
NITZSCHIA ACICULARIS	10.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	14.00
NITZSCHIA DISSIPATA	16.00
NITZSCHIA FONTICOLA	11.00
NITZSCHIA FRUSTULUM	76.00
NITZSCHIA GRACILIS	5.00
NITZSCHIA HOLSATICA	16.00
NITZSCHIA PALEA	22.00
EUGLENOPHYTA	
EUGLENA SPP	3.00

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APPENDIX D-5-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/ML)
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D[illegible]-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	30.00
CHLOROPHYTA	
CLADOPHORA SPP	27.00
ANKISTRODESMUS FALCATUS	5.00
CLOSTERIUM PARVULUM	14.00
CHLOROPHYTA I	11.00
FLAGELLATE UNIDENTIFIED	41.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	16.00
CYCLOTELLA MENEGHINIANA	24.00
STEPHANODISCUS TENUIS	14.00
DIATOMA VULGARE	5.00
FRAGILARIA PINNATA	3.00
SYNEDRA DELICATISSIMA	14.00
COCCONEIS PLACENTULA	3.00
ACHNANTHES MINUTISSIMA	3.00
GYROSIGMA ACUMINATUM	8.00

APPENDIX D-5-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	54.00
NAVICULA CRYPTOCEPHALA	124.00
NAVICULA SALINARUM	8.00
NAVICULA TRIPUNCTATA	11.00
NAVICULA VIRIDULA	11.00
CALONEIS AMPHISBAENA	3.00
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA AFFINIS	19.00
CYMBELLA MEXICANA	3.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	19.00
GOMPHONEMA VENTRICOSUM	392.00
EPITHEMIA SOREX	8.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	14.00
NITZSCHIA CAPITELLATA	16.00
NITZSCHIA DISSIPATA	84.00
NITZSCHIA FRUSTULUM	16.00
NITZSCHIA GRACILIS	19.00
NITZSCHIA HOLSATICA	27.00
NITZSCHIA PALEA	

APPENDIX D-[illegible]-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
CYMATOPLEURA SOLEA	5.00
SURIRELLA OVATA	3.00
EUGLENOPHYTA	
EUGLENA PROXIMA	5.00
EUGLENA SPP	19.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	5.00

APPENDIX D-5-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	11.00
ANABAENA SPP	11.00
CALOTHRIX SPP	3.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	3.00
CLADOPHORA SPP	.42
ANKISTRODESMUS FALCATUS	3.00
MOUGEOTIA SPP	2.08
CLOSTERIUM PARVULUM	.06
FLAGELLATE UNIDENTIFIED	51.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	14.00
CYCLOTELLA MENEGHINIANA	19.00
DIATOMA VULGARE	8.00
FRAGILARIA PINNATA	11.00
FRAGILARIA VAUCHERIAE	5.00
COCCONEIS PEDICULUS	3.00

APPENDIX D-5-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	14.00
NAVICULA PUPULA	3.00
NAVICULA SALINARUM	89.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	35.00
CALONEIS AMPHISBAENA	3.00
AMPHORA OVALIS VAR. PEDICULUS	8.00
CYMBELLA AFFINIS	22.00
CYMBELLA MEXICANA	3.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	5.00
GOMPHONEMA VENTRICOSUM	11.00
EPITHEMIA SOREX	332.00
NITZSCHIA ACICULARIS	9.00
NITZSCHIA APICULATA	8.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA DISSIPATA	22.00
NITZSCHIA FRUSTULUM	111.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA HOLSATICA	19.00
NITZSCHIA LATENS	22.00

APPENDIX [illegible] (continued)

SITE = 33 REF :

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	16.00
SURIRELLA OVATA	3.00
EUGLENOPHYTA	
EUGLENA SPP	8.00

APPENDIX D-5-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
OSCILLATORIA TENUIS	5.00
ANABAENA SPP	5.00
CALOTHRIX SPP	14.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.74
CLADOPHORA SPP	.06
MOUGEOTIA SPP	2.66
CLOSTERIUM PARVULUM	.08
FLAGELLATE UNIDENTIFIED	35.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	19.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	3.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	3.00
COCCONEIS PEDICULUS	5.00

APPENDIX D-5-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
COCCONEIS PLACENTULA	3.00
ACHNANTHES MINUTISSIMA	3.00
AMPHIPLEURA PELLUCIDA	3.00
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA SALINARUM	100.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	27.00
CALONEIS AMPHISBAENA	5.00
PINNULARIA VIRIDIS	.02
AMPHORA OVALIS VAR. PEDICULUS	3.00
CYMBELLA AFFINIS	19.00
CYMBELLA MEXICANA	3.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	14.00
GOMPHONEMA VENTRICOSUM	16.00
EPITHEMIA SOREX	469.00
RHOPALODIA GIBBA	8.00
NITZSCHIA ACICULARIS	11.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	27.00
NITZSCHIA DISSIPATA	35.00

APPENDIX D-5-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	127.00
NITZSCHIA GRACILIS	19.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA LATENS	27.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	8.00
CYMATOPLEURA SOLEA	.06
SURIRELLA OVATA	8.00
EUGLENOPHYTA	
EUGLENA SPP	11.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	8.00

APPENDIX D-5-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
SCHIZOTHRIX CALCICOLA	11.00
ANABAENA SPP	14.00
CALOTHRIX SPP	11.00
CHLOROPHYTA	
ANKISTRODESMUS FALCATUS	3.00
MOUGEOTIA SPP	3.00
CLOSTERIUM PARVULUM	3.00
FLAGELLATE UNIDENTIFIED	57.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	8.00
CYCLOTELLA MENEGHINIANA	14.00
DIATOMA VULGARE	5.00
FRAGILARIA PINNATA	8.00
FRAGILARIA VAUCHERIAE	5.00
SYNEDRA DELICATISSIMA	3.00
ACHNANTHES MINUTISSIMA	22.00
PLEUROSIGMA DELICATULUM	.02

APPENDIX D-[illegible] (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CRYPTOCEPHALA	39.00
NAVICULA CUSPIDATA	.02
NAVICULA SALINARUM	130.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	22.00
CALONEIS AMPHISBAENA	.08
AMPHORA OVALIS VAR. *PEDICULUS*	5.00
CYMBELLA AFFINIS	27.00
CYMBELLA MEXICANA	3.00
CYMBELLA VENTRICOSA	8.00
GOMPHONEMA OLIVACEUM	30.00
GOMPHONEMA VENTRICOSUM	35.00
EPITHEMIA SOREX	545.00
RHOPALODIA GIBBA	5.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	27.00
NITZSCHIA DISSIPATA	35.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	132.00
NITZSCHIA GRACILIS	8.00
NITZSCHIA HOLSATICA	22.00

APPENDIX D-5-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NITZSCHIA LATENS	8.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	8.00
CYMATOPLEURA SOLEA	.10
SURIRELLA OVATA	5.00
EUGLENOPHYTA	
EUGLENA SPP	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX [illegible]-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CALOTHRIX SPP	3.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	2.44
PEDIASTRUM DUPLEX	.64
CLOSTERIUM PARVULUM	.16
FLAGELLATE UNIDENTIFIED	32.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	16.00
STEPHANODISCUS TENUIS	3.00
DIATOMA VULGARE	5.00
FRAGILARIA PINNATA	11.00
SYNEDRA DELICATISSIMA	8.00
COCCONEIS PLACENTULA	3.00
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA SALINARUM	68.00
NAVICULA TRIPUNCTATA	3.00

APPENDIX D-5-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA VIRIDULA	16.00
CALONEIS AMPHISBAENA	.05
CYMBELLA AFFINIS	11.00
CYMBELLA VENTRICOSA	5.00
GOMPHONEMA OLIVACEUM	16.00
GOMPHONEMA VENTRICOSUM	24.00
EPITHEMIA SOREX	327.00
RHOPALODIA GIBBA	5.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA CAPITELLATA	16.00
NITZSCHIA DISSIPATA	22.00
NITZSCHIA FRUSTULUM	97.00
NITZSCHIA GRACILIS	14.00
NITZSCHIA HOLSATICA	8.00
NITZSCHIA LATENS	3.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	5.00
CYMATOPLEURA SOLEA	.02
SURIRELLA OVATA	5.00
CRYPTOPHYTA	
CRYPTOMONAS EROSA	3.00

APPENDIX J-5-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
CALOTHRIX SPP	11.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	.44
ANKISTRODESMUS FALCATUS	3.00
MOUGEOTIA SPP	2.16
LOSTERIUM PARVULUM	.10
LAGELLATE UNIDENTIFIED	38.00
HRYSOPHYTA	
LOSIRA VARIANS	8.00
ALASSIOSIRA FLUVIATILIS	5.00
CLOTELLA MENEGHINIANA	11.00
ATOMA VULGARE	5.00
GILARIA PINNATA	5.00
EDRA DELICATISSIMA	11.00
NANTHES MINUTISSIMA	11.00
ROSIGMA DELICATULUM	.08
CULA CRYPTOCEPHALA	35.00

APPENDIX D-5-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA CUSPIDATA	.02
NAVICULA SALINARUM	76.00
NAVICULA VIRIDULA	19.00
CALONEIS AMPHISBAENA	.18
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	14.00
GOMPHONEMA OLIVACEUM	8.00
GOMPHONEMA VENTRICOSUM	11.00
EPITHEMIA SOREX	351.00
RHOPALODIA GIBBA	11.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	24.00
NITZSCHIA DISSIPATA	41.00
NITZSCHIA FRUSTULUM	97.00
NITZSCHIA GRACILIS	8.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA LATENS	14.00
NITZSCHIA PALEA	3.00
CYMATOPLEURA SOLEA	[illegible]
[illegible]	
[illegible]	[illegible]

APPENDIX D-5-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/ML)
CYANOPHYTA	
ANABAENA SPP	3.00
CHLOROPHYTA	
SPIROGYRA SPP	2.04
CLOSTERIUM PARVULUM	.20
CHLOROPHYTA I	19.00
FLAGELLATE UNIDENTIFIED	57.00
CHRYSOPHYTA	
THALASSIOSIRA FLUVIATILIS	5.00
CYCLOTELLA MENEGHINIANA	14.00
DIATOMA VULGARE	8.00
FRAGILARIA PINNATA	5.00
SYNEDRA DELICATISSIMA	8.00
ACHNANTHES MINUTISSIMA	8.00
PLEUROSIGMA DELICATULUM	.02
DIPLONEIS ELLIPTICA	3.00
NAVICULA CRYPTOCEPHALA	35.00
NAVICULA SALINARUM	97.00

APPENDIX D-5-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/ML)
CHRYSOPHYTA	
NAVICULA TRIPUNCTATA	5.00
NAVICULA VIRIDULA	19.00
CALONEIS AMPHISBAENA	3.00
CALONEIS VENTRICOSA	3.00
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	16.00
CYMBELLA MEXICANA	5.00
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	3.00
GOMPHONEMA VENTRICOSUM	22.00
EPITHEMIA SOREX	324.00
RHOPALODIA GIBBA	14.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	8.00
NITZSCHIA DENTICULA	11.00
NITZSCHIA DISSIPATA	24.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	95.00
NITZSCHIA GRACILIS	22.00
NITZSCHIA HOLSATICA	16.00
NITZSCHIA LATENS	11.00

2.4.3 Zooplankton

2.4.3 Zooplankton

2.4.3.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.3.1 of Progress Report 3 for specific objectives.

2.4.3.2 Methods

In accordance with the revised aquatic Scope of Work of April 2, 1975, zooplankton samples are taken with a small submersible pump at all stations. Other methods remain unchanged from Progress Report 2. See section 2.4.3.2 of Progress Report 2 for specific methods.

2.4.3.3 Results

Zooplankton taxa encountered in July - August 1975 collections are listed in Appendix D-6-1 (results from the first replicate were reported in Appendix C-8-1 and C-8-2 of Progress Report 4). A total of 74 zooplankton taxa was observed in the July - August 1975 collections (both replicates). Data from the second replicate is very similar to the data previously reported. *Centropyxis* spp., unidentified bdelloid rotifers and ostracoda were the most abundant taxa at the Headwater stations above Tract C-a. The zooplankton fauna on or near the Tract was dominated by *Centropyxis* spp., *Vorticella* sp., *Euchlanis*, *dilatata*, Crustacea nauplii and unidentified monogonont rotifers. *Centropyxis* spp.and unidentitied monogonont rotifers were also the dominant taxa at Yellow Creek and White River stations.

Zooplankton taxa encountered in August - September 1975 collections are listed in Appendix D-7-1. A total of 52 taxa was observed in these samples. The composition of these zooplankton was clearly influenced by habitat. The zooplankton of the spring brook stations of both the Headwater and Tract areas were dominated by *Centropyxis* spp. and by either *Vorticella* sp. and Crustacea nauplii or ostracods. However, a high diversity of both rotifers and Crustacea was observed at stations located on or below ponds (Stations 5, 14 and 19) and at Stations 20 - 22 on Yellow Creek. The most abundant taxa include *Euchlanis dilatata*, *Lepadella patella*, *Monostyla closterocerca* and unidentified monogonont rotifers. The Crustacea fauna at Station 14 differed considerably from that at the other stations. *Ceriodaphnia quadrangula* were the dominant species at Station 14 whereas, at other stations, the most abundant Crustacea taxa included *Alona circumfimbriata*, *Pleuroxus aduncus* and *Eucyclops agilis*. The White River zooplankton was dominated by *Centropyxis* spp., unidentified monogonont rotifers and *Epistylis* sp.

2.4.3. - Zooplankton Data

RBOSP PROGRESS REPORT

APPENDIX D-6 -1

ZOOPLANKTON TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-6 -1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

PROTOZOA

Campanella Sp.
Centropyxis aculeata
Centropyxis arcelloides
Centropyxis constricta
Centropyxis sp.
Chilodonella sp.
ciliates (unidentified)
Cucurbitella mespiliformis
Cyphoderia ampulla
Difflugia acuminata
Difflugia gramen
Difflugia lanceolata
Difflugia lebes
Difflugia lobostoma
Difflugia oblonga
Difflugia sp.
Dileptus sp.
Epistylis sp.
Euglypha compressa
Lacrymaria sp.
Rhabdostyla sp.
Strobilidium sp.
Strombidium sp.
Trochilia sp.
Vorticella sp.

ROTIFERA

bdelloidea (unidentified)
Brachionus quadridentatus
Cephalodella forficula
Cephalodella gibba
Cephalodella sp.
Colurella adriatica
Colurella obtusa
Euchlanis dilatata
Keratella quadrata
Keratella sp.
Lecane luna
Lepadella patella
monogonont (unidentified)
Monostyla bulla
Monostyla closterocerca
Monostyla lunaris

- *Mytilina ventralis*
- *Notholca acuminata*
- *Notholca foliacea*
- *Notholca squamula*
- *Platyias quadricornis*
- *Trichocerca cylindrica*
- *Trichotria pocillum*

TARDIGRADA

ARTHROPODA

- Amphipoda
  - *Hyalella azteca*
- Cladocera
  - *Alona circumfimbriata*
  - *Alona* sp.
  - *Alonella excisa*
  - *Ceriodaphnia quadrangula*
  - *Ceriodaphnia* sp.
  - *Chydorus sphaericus*
  - *Daphnia pulex*
  - *Kurzia latissima*
  - *Moina* sp.
  - *Pleuroxus aduncus*
  - *Simocephalus vetulus*
- Copepoda
  - Nauplii
  - Calanoid copepodites
  - Cyclopoid copepodites
  - *Harpacticoid copepodites*
  - *Bryocamptus hiemalis*
  - *Bryocamptus zschokkei*
  - *Cyclops vernalis*
  - *Diaptomus* sp.
  - *Eucyclops agilis*
  - *Eucyclops speratus*
  - *Macrocyclops albidus*
  - *Paracyclops fimbriatus poppei*
- Ostracoda
  - Ostracoda (unidentified)

RBOSP PROGRESS REPORT

APPENDIX D-6 -2

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-6-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975. (Data are expressed as organisms/m^3).

	Station				
PROTOZOA	1 B	2 B	3 B	4 B	5 B
Campanella sp.	800				
Centropyxis aculeata		1400	1600	400	200
Centropyxis arcelloides	200	200			
Centropyxis constricla	3800	3800	3000	200	
Centropyxis sp.		200			
Chilodonella sp.					
Cilio phora (unidentified)		600			
Cucurbitella mespiliformis					200
Cyphoderia ampulla					
Difflugia acuminata	200				
Difflugia gramen					
Difflugia lanceolata					
Difflugia lebes		200	600	200	400
Difflugia lobostoma					
Difflugia oblonga		200	200		
Difflugia sp.					
Dileptus sp.					
Epistylis sp.					
Euglypha compressa					
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					
Trochilia sp.					
Vorticella sp.		200			

APPENDIX D-6 -2 (Continued)

	Station				
	1	2	3	4	5
	B	B	B	B	B
ROTIFERA					
Bdelloidea spp. (contracted)	5000	1400	1000		400
Brachionus quadridentatus					
Cephalodella forficula	200				200
Cephalodella gibba					
Cephalodella sp.		200			
Colurella adriatica					
Colurella obtusa					200
Euchlanis dilatata					
Keratella quadrata					
Keratella sp.					
Lecane luna					500
Lepadella patella	600	200	200	400	
Monogonont spp. (contracted)					
Monostyla bulla					200
Monostyla closterocerca					
Monostyla lunaris					
Mytilina ventralis					
Notholca acuminata					
Notholca foliacea					
Notholca squamula					
Platyias quadricornis					
Trichocerca cylindrica					
Trichotria pocillum					
TARDIGRADA					
Macrobiotus sp.					
ARTHROPODA					
Crustacea					
Amphipoda					

APPENDIX D-6-2 (Continued)

	Station 1 B	 2 B	 3 B	 4 B	 5 B
Hyalella azteca					
Cladocera					
Alona circumfibriata					290
Alona sp.					10
Alonella excisa					
Ceriodaphnia quadrangula					110
Ceriodaphnia sp.					
Chydorus sphaericus					140
Daphnia pulex					
Kurzia latissima					
Moina sp.					60
Pleuroxus aduncus					
Simocephalus vetulus					
Copepoda					
Nauplii	200	4800	600		5200
Calanoid copepodites					
Cyclopoid copepodites					780
Bryocamptus hiemalis				10	
Bryocamptus zschokkei					
Cyclops vernalis					10
Diaptomus sp.					
Eucyclops agilis					
Eucyclops speratus					100
Macrocyclops albidus					30
Paracyclops fimbriatus poppei					
Ostracoda					
Ostracoda spp. (unidentified)	4400	10	70	90	4780

APPENDIX D-6-2 (Continued)

PROTOZOA	Station 6 B	 7 B	 8 B	 9 B	 10 B
Campanella sp.	Dry				Dry
Centropyxis aculeata		800	200	800	
Centropyxis arcelloides		200	600		
Centropyxis constricla		2800	1200	400	
Centropyxis sp.					
Chilodonella sp.					
Cilio phora (unidentified)					
Cucurbitella mesoiliformis					
Cyphoderia ampulla		400		400	
Difflugia acuminata					
Difflugia gramen					
Difflugia lanceolata					
Difflugia lebes					
Difflugia lobostoma			200		
Difflugia oblonga					
Difflugia sp.					
Dileptus sp.					
Epistylis sp.					
Euglypha compressa					
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					
Trochilia sp.					
Vorticella sp.					

APPENDIX D-6-2 (Continued)

	Station				
	6 B	7 B	8 B	9 B	10 B
ROTIFERA					
Bdelloidea spp. (contracted)		200	200	1800	
Brachionus quadridentatus					
Cephalodella forficula					
Cephalodella gibba					
Cephalodella sp.				200	
Colurella adriatica					
Colurella obtusa					
Euchlanis dilatata					
Keratella quadrata					
Keratella sp.					
Lecane luna					
Lepadella patella			200	400	
Monoqonont spp. (contracted)		200		200	
Monostyla bulla					
Monostyla closterocerca					
Monostyla lunaris					
Mytilina ventralis					
Notholca acuminata					
Notholca foliacea					
Notholca squamula					
Platyias quadricornis					
Trichocerca cylindrica					
Trichotria pocillum					
TARDIGRADA					
Macrobiotus sp.					
ARTHROPODA					
Crustacea					
Amphipoda					

APPENDIX D-6-[illegible] (Continued)

	Station				
	6	7	8	9	10
	B	B	B	B	B
Hyalella azteca					
Cladocera					
Alona circumfibriata					
Alona sp.					
Alonella excisa					
Ceriodaphnia quadrangula					
Ceriodaphnia sp.					
Chydorus sphaericus					
Daphnia pulex					
Kurzia latissima					
Moina sp.					
Pleuroxus aduncus					
Simocephalus vetulus					
Copepoda					
Nauplii			200	800	
Calanoid copepodites					
Cyclopoid copepodites					
Bryocamptus hiemalis			30	50	
Bryocamptus zschokkei					
Cyclops vernalis					
Diaptomus sp.					
Eucyclops agilis				20	
Eucyclops speratus					
Macrocyclops albidus					
Paracyclops fimbriatus poppei					
Ostracoda					
Ostracoda spp. (unidentified)		140	20		

APPENDIX D-6-2 (Continued)

	Station				
	11 B	12 B	13 B	14 B	15 B
PROTOZOA					
Campanella sp.	Dry	Dry			
Centropyxis aculeata			400		
Centropyxis arcelloides			400		
Centropyxis constricla			200		
Centropyxis sp.					
Chilodonella sp.					
Cilio phora (unidentified)				200	
Cucurbitella mespiliformis					
Cyphoderia ampulla					
Difflugia acuminata					
Difflugia gramen					
Difflugia lanceolata					
Difflugia lebes					
Difflugia lobostoma					
Difflugia oblonga					
Difflugia sp.					
Dileptus sp.			200		
Epistylis sp.					200
Euglypha compressa					
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					200
Trochilia sp.					
Vorticella sp.				2200	400

APPENDIX D-6-2 (Continued)

	Station				
	11	12	13	14	15
	B	B	B	B	B
ROTIFERA					
Bdelloidea spp. (contracted)			200		
Brachionus quadridentatus					
Cephalodella forficula					
Cephalodella gibba					200
Cephalodella sp.					
Colurella adriatica					
Colurella obtusa					
Euchlanis dilatata				6200	200
Keratella quadrata					
Keratella sp.					
Lecane luna					
Lepadella patella				4200	1400
Monogonont spp. (contracted)			400	25000	4600
Monostyla bulla					
Monostyla closterocerca					200
Monostyla lunaris					
Mytilina ventralis					
Notholca acuminata				6800	200
Notholca foliacea					
Notholca squamula				200	
Platyias quadricornis					
Trichocerca cylindrica					
Trichotria pocillum					
TARDIGRADA					
Macrobiotus sp.					
ARTHROPODA					
Crustacea					
Amphipoda					

APPENDIX D-6-2 (Continued)

	Station				
	11 B	12 B	13 B	14 B	15 B
Hyalella azteca					
Cladocera					
Alona circumfibriata					
Alona sp.					
Alonella excisa					
Ceriodaphnia quadrangula					
Ceriodaphnia sp.					
Chydorus sphaericus					
Daphnia pulex					
Kurzia latissima					
Moina sp.					
Pleuroxus aduncus					
Simocephalus vetulus					
Copepoda					
Nauplii					
Calanoid copepodites					
Cyclopoid copepodites					10
Bryocamptus hiemalis					
Bryocamptus zschokkei					
Cyclops vernalis					
Diaptomus sp.					
Eucyclops agilis				20	
Eucyclops speratus					
Macrocyclops albidus					
Paracyclops fimbriatus poppei					
Ostracoda					
Ostracoda spp. (unidentified)				30	20

APPENDIX D-6-2 (Continued)

	Station				
PROTOZOA	16 B	17 B	18 B	19 B	20 B
Campanella sp.	Dry				
Centropyxis aculeata				200	
Centropyxis arcelloides					400
Centropyxis constricla					3800
Centropyxis sp.					
Chilodonella sp.		400	200		
Cilio phora (unidentified)		400			
Cucurbitella mespiliformis			200		
Cyphoderia ampulla					
Difflugia acuminata					
Difflugia gramen					
Difflugia lanceolata					200
Difflugia lebes					
Difflugia lobostoma					
Difflugia oblonga					
Difflugia sp.					
Dileptus sp.					
Epistylis sp.					
Euglypha compressa					
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					
Trochilia sp.					
Vorticella sp.		200			

APPENDIX D-6-2 (Continued)

	Station				
	16 B	17 B	18 B	19 B	20 B
ROTIFERA					
Bdelloidea spp. (contracted)		400			
Brachionus quadridentatus					
Cephalodella forficula					
Cephalodella gibba					
Cephalodella sp.					
Colurella adriatica					
Colurella obtusa					
Euchlanis dilatata					
Keratella quadrata					
Keratella sp.					
Lecane luna					
Lepadella patella		200			
Monogonont spp. (contracted)		500		600	
Monostyla bulla					
Monostyla closterocerca				200	
Monostyla lunaris					
Mytilina ventralis					
Notholca acuminata					
Notholca foliacea					
Notholca squamula					
Platyias quadricornis					
Trichocerca cylindrica					
Trichotria pocillum					
TARDIGRADA					
Macrobiotus sp.					
ARTHROPODA					
Crustacea					
Amphipoda					

	Station				
	16 B	17 B	18 B	19 B	20 B
Hyalella azteca				30	
Cladocera					
Alona circumfibriata					
Alona sp.					
Alonella excisa					
Ceriodaphnia quadrangula					
Ceriodaphnia sp.					
Chydorus sphaericus				40	
Daphnia pulex					
Kurzia latissima					
Moina sp.					
Pleuroxus aduncus				10	290
Simocephalus vetulus					20
Copepoda					
Nauplii					400
Calanoid copepodites					
Cyclopoid copepodites				80	80
Bryocamptus hiemalis					
Bryocamptus zschokkei					
Cyclops vernalis				10	
Diaptomus sp.					
Eucyclops agilis			10	230	1130
Eucyclops speratus					10
Macrocyclops albidus					
Paracyclops fimbriatus poppei					
Ostracoda					
Ostracoda spp. (unidentified)				190	10

APPENDIX D-6-2 (Continued)

	Station				
	21 B	22 B	23 B	24 B	25 B
PROTOZOA					
Campanella sp.					
Centropyxis aculeata	200		600	200	800
Centropyxis arcelloides			400		400
Centropyxis constricla	600	800	1400	1600	3800
Centropyxis sp.					
Chilodonella sp.					
Cilio phora (unidentified)			200	200	
Cucurbitella mespiliformis			200		
Cyphoderia ampulla					200
Difflugia acuminata				200	
Difflugia gramen					
Difflugia lanceolata					
Difflugia lebes			200	200	
Difflugia lobostoma					
Difflugia oblonga					200
Difflugia sp.					
Dileptus sp.					
Epistylis sp.			400	1600	1200
Euglypha compressa				200	
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					
Trochilia sp.					
Vorticella sp.					

APPENDIX D-6-2 (Continued)

	Station				
	21 B	22 B	23 B	24 B	25 B
ROTIFERA					
Bdelloidea spp. (contracted)					
Brachionus quadridentatus					
Cephalodella forficula					
Cephalodella gibba				400	200
Cephalodella sp.					
Colurella adriatica				200	
Colurella obtusa					
Euchlanis dilatata			2000		1000
Keratella quadrata					
Keratella sp.	200				
Lecane luna					
Lepadella patella			200		
Monogonont spp. (contracted)			3800	3600	3800
Monostyla bulla			200	400	1000
Monostyla closterocerca			400		
Monostyla lunaris					200
Mytilina ventralis					
Notholca acuminata					
Notholca foliacea					
Notholca squamula					
Platyias quadricornis					
Trichocerca cylindrica					
Trichotria pocillum			200		
TARDIGRADA					
Macrobiotus sp.				200	
ARTHROPODA					
Crustacea					
Amphipoda					

APPENDIX D-6-2 (Continued)

	Station				
	21 B	22 B	23 B	24 B	25 B
Hyalella azteca					
Cladocera					
Alona circumfibriata					
Alona sp.					
Alonella excisa					
Ceriodaphnia quadrangula					
Ceriodaphnia sp.					
Chydorus sphaericus					
Daphnia pulex					
Kurzia latissima					
Moina sp.				10	
Pleuroxus aduncus					
Simocephalus vetulus	220	50			
Copepoda	30				
Nauplii					
Calanoid copepodites		400	200	1000	800
Cyclopoid copepodites				10	
Harpacticoid copepodites	70	340		20	20
Bryocamptus hiemalis			10		
Bryocamptus zschokkei					
Cyclops vernalis					
Diaptomus sp.				10	
Eucyclops agilis					10
Eucyclops speratus	290	660			20
Macrocyclops albidus					
Paracyclops fimbriatus poppei					
Ostracoda					
Ostracoda spp. (unidentified)				20	

APPENDIX D-6-2 (Continued)

	Station				
	26 B	27 B	28 B	29 B	30 B
PROTOZOA					
Campanella sp.					
Centropyxis aculeata	600	200	200		400
Centropyxis arcelloides	400	400	800	200	400
Centropyxis constricla	2000	1400	2000	200	2400
Centropyxis sp.					
Chilodonella sp.					
Cilio phora (unidentified)					
Cucurbitella mespiliformis					
Cyphoderia ampulla	200				
Difflugia acuminata					200
Difflugia gramen					
Difflugia lanceolata					
Difflugia lebes		200	200	200	200
Difflugia lobostoma					
Difflugia oblonga					
Difflugia sp.					
Dileptus sp.	200				
Epistylis sp.		3000		400	200
Euglypha compressa					
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					
Trochilia sp.					
Vorticella sp.					

APPENDIX D-6-2 (Continued)

	Station				
	26	27	28	29	30
	B	B	B	B	B
ROTIFERA					
Bdelloidea spp. (contracted)	200				
Brachionus quadridentatus					
Cephalodella forficula					
Cephalodella gibba	400		600		200
Cephalodella sp.	200		400		
Colurella adriatica	200			200	200
Colurella obtusa					
Euchlanis dilatata	200	1400	1800	400	200
Keratella quadrata					
Keratella sp.					200
Lecane luna					
Lepadella patella		200	400	200	200
Monogonont spp. (contracted)	4400	2400	3800	5600	1400
Monostyla bulla	400	600	200	800	
Monostyla closterocerca	400				
Monostyla lunaris	400	200			
Mytilina ventralis				200	
Notholca acuminata					
Notholca foliacea					
Notholca squamula	400				200
Platyias quadricornis					
Trichocerca cylindrica				200	
Trichotria pocillum	200				
TARDIGRADA					
Macrobiotus sp.					
ARTHROPODA					
Crustacea					
Amphipoda					

APPENDIX D-6-2 (Continued)

	Station				
	26 B	27 B	28 B	29 B	30 B
Hyalella azteca					
Cladocera					
Alona circumfibriata	40			10	
Alona sp.					
Alonella excisa					
Ceriodaphnia quadrangula					
Ceriodaphnia sp.					
Chydorus sphaericus					
Daphnia pulex					
Kurzia latissima					
Moina sp.					
Pleuroxus aduncus					
Simocephalus vetulus				10	
Copepoda					
Nauplii	400			200	
Calanoid copepodites	20				
Cyclopoid copepodites	10	10	10	20	30
Bryocamptus hiemalis					
Bryocamptus zschokkei					
Cyclops vernalis	10				
Diaptomus sp.	10				
Eucyclops agilis					10
Eucyclops speratus					
Macrocyclops albidus					
Paracyclops fimbriatus poppei			10		
Ostracoda					
Ostracoda spp. (unidentified)			10	10	10

APPENDIX D-6-2 (Continued)

PROTOZOA	Station 31 B	 32 B	 33 B	 34 B	 35 B
Campanella sp.					
Centropyxis aculeata	1000	200	400	200	200
Centropyxis arcelloides		200		200	2000
Centropyxis constricla	1200	800	600	1000	2000
Centropyxis sp.					
Chilodonella sp.					
Cilio phora (unidentified)					
Cucurbitella mespiliformis					
Cyphoderia ampulla					
Difflugia acuminata		200		200	
Difflugia gramen					
Difflugia lanceolata					
Difflugia lebes				200	200
Difflugia lobostoma					
Difflugia oblonga					
Difflugia sp.			200		
Dileptus sp.		200		200	
Epistylis sp.	200	1000		1400	600
Euglypha compressa					
Lacrymaria sp.					
Rhabdostyla sp.					
Strobilidium sp.					
Trochilia sp.					
Vorticella sp.	200	200			

APPENDIX D-6-2 (Continued)

	Station				
ROTIFERA	31 B	32 B	33 B	34 B	35 B
Bdelloidea spp. (contracted)					
Brachionus quadridentatus					
Cephalodella forficula					
Cephalodella gibba				200	
Cephalodella sp.					
Colurella adriatica					
Colurella obtusa		200		200	
Euchlanis dilatata				200	1800
Keratella quadrata					
Keratella sp.					
Lecane luna		200	200		
Lepadella patella	200			200	200
Monogonont spp. (contracted)	3000	4200	2000	5000	5200
Monostyla bulla	400	200	200	200	200
Monostyla closterocerca	400	400			
Monostyla lunaris			200	200	
Mytilina ventralis			200		
Notholca acuminata					
Notholca foliacea					
Notholca squamula				400	
Platyias quadricornis			200		
Trichocerca cylindrica					200
Trichotria pocillum			400	200	200
TARDIGRADA					
Macrobiotus sp.					
ARTHROPODA					
Crustacea					
Amphipoda					

APPENDIX D-6-2 (Continued)

	Station				
	31 B	32 B	33 B	34 B	35 B
Hyalella azteca					
Cladocera					
Alona circumfibriata	10	10		10	
Alona sp.					
Alonella excisa		10			
Ceriodaphnia quadrangula					10
Ceriodaphnia sp.					
Chydorus sphaericus					
Daphnia pulex					
Kurzia latissima					
Moina sp.					
Pleuroxus aduncus					240
Simocephalus vetulus					10
Copepoda					
Nauplii	200	400	400	800	
Calanoid copepodites					
Cyclopoid copepodites	10	20	20	10	130
Bryocamptus hiemalis					
Bryocamptus zschokkei	10				
Cyclops vernalis					
Diaptomus sp.					
Eucyclops agilis		20			
Eucyclops speratus					
Macrocyclops albidus					
Paracyclops fimbriatus poppei					
Ostracoda					
Ostracoda spp. (unidentified)				10	10

APPENDIX D-7-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-7-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER, 1975

PROTOZOA

Arcella polypora
Bresslaua sp.
Centropyxis aculeata
Centropyxis arcelloides
Centropyxis constricta
Chilodonella sp.
Ciliates (unidentified)
Cyphoderia ampulla
Difflugia acuminata
Difflugia lebes
Difflugia sp.
Dileptus sp.
Epistylis sp.
Euglypha compressa
Paramecium aurelia
Paramecium sp.
Rhizopods sp. (unidentified)
Vorticella sp.

ROTIFERA

Bdelloidea (unidentified)
Cephalodella forficula
Cephalodella gibba
Cephalodella sp.
Colurella adriatica
Colurella obtusa
Euchlanis dilatata
Lecane luna
Lepadella patella
Monogonont (unidentified)
Monostyla bulla
Monostyla closterocerca
Monostyla lunaris
Monostyla quadridentata
Mytilina ventralis
Notholca acuminata
Trichotria pocillum

TARDIGRADA

ARTHROPODA

- Amphipoda
  - *Hyalella azteca*
- Cladocera
  - *Alona barbulata*
  - *Alona circumfimbriata*
  - *Ceriodaphnia quadrangula*
  - *Chydorus sphaericus*
  - *Pleuroxus aduncus*
  - *Scapholeberis kingi*
  - *Simocephalus vetulus*
- Copepoda
  - Nauplii
  - Cyclopoid copepodites
  - Harpacticoid copepodites
  - *Bryocamptus hiemalis*
  - *Cyclops verralis*
  - *Eucyclops agilis*
  - *Eucyclops speratus*
- Ostracoda
  - Ostracoda (unidentified)

RBOSP PROGRESS REPORT

APPENDIX D-7-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-7-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975. (Data are expressed as organisms/m^3)

	Station					
	1 A	1 B	2 A	2 B	3 A	3 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata					200	
Centropyxis arcelloides			200			
Centropyxis constricta	800		1200		400	
Chilodonella sp.					200	
ciliates (unidentified)	200		200		800	200
Cyphoderia ampulla			200			
Difflugia acuminata						
Difflugia lebes						
Difflugia sp.						
Epistylis sp.			200			
Euglypha compressa						
Parniecium aurelia					5	2000
Paramecium sp.						
Testacida sp. (unidentified)			2600		1000	400
Vorticella sp.						
ROTIFERA						
bdelloidea (unidentified)	400	400	5200	1000	1000	3800
Cepholodella forficula						
Cephalodella gibba						
Cephalodella sp.						
Colurella adriatica			200			
Euchlanis dilatata		400				

APPENDIX D- 7-2 (Continued)

	Station					
	1 A	1 B	2 A	2 B	3 A	3 B
Lecane luna		200				
Lepadella patella		400				
Monogonont (unidentified)	800	200	200		1800	800
Monostyla bulla	200					
Monostyla closterocerca		200				
Monostyla lunaris						
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum			200			
TARDIGRADA			10			
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodaphnia quadiangulu						
Cliydorus sphaerious						
Pleuroxus aduncus						
Scapholeberis kingi						
Simocephalus vetulus						
Copepoda						
Nauplii	1000	200			200	
Cyclopoid copepodites						
Harpacticoid copepodites					40	
Bryocamptus hiemalis	10	90	700	80		
Cyclops vernalis						
Eucyclops agilis						
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)	110	60	20	10		60

APPENDIX D-7-2 (Continued)

	Station					
	4 A	4 B	5 A	5 B	6 A Dry	6 B Dry
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata	200					
Centropyxis arcelloides				200		
Centropyxis constricta	4000	600	200	200		
Chilodonella sp.						
ciliates (unidentified)						
Cyphoderia ampulla						
Difflugia acuminata						
Difflugia lebes						
Difflugia sp.						
Epistylis sp.						
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.						
ROTIFERA						
bdelloidea (unidentified)		200		400		
Cepholodella forficula						
Cephalodella gibba						
Cephalodella sp.						
Colurella adriatica						
Euchlanis dilatata						

APPENDIX D-7-2 (Continued)

	Station 4/A	4/B	5/A	5/B	6/A	6/B
Lecane luna				200		
Lepadella patella						
monogonont (unidentified)	200	400				
Monostyla bulla						
Monostyla closterocerca			200			
Monostyla lunaris						
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum						
TARDIGRADA						
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata			80	50		
Ceriodaphnia quadiangulu			130			
Chydorus sphaericus			170	20		
Pleuroxus aduncus			140	80		
Scapholeberis kingi			10			
Simocephalus vetulus			10	20		
Copepoda						
Nauplii	600	400	200	400		
Cyclopoid copepodites			110	20		
Harpacticoid copepodites						
Bryocamptus hiemalis	70					
Cyclops vernalis			10			
Eucyclops agilis			30	70		
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)	120	110	210	60		

APPENDIX D-7-2 (Continued)

	Station					
	7 A	7 B	8 A	8 B	9 A	9 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata	400		600			
Centropyxis arcelloides						
Centropyxis constricta	3300	1000	200	200	2400	300
Chilodonella sp.						
ciliates (unidentified)		400		200		
Cyphoderia ampulla	200	200			200	
Difflugia acuminata						
Difflugia lebes						
Difflugia sp.						
Epistylis sp.						
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.						
ROTIFERA						
bdelloidea (unidentified)	400		200	200	200	200
Cepholodella forficula						
Cephalodella gibba						
Cephalodella sp.						
Colurella adriatica						
Euchlanis dilatata	200					

APPENDIX D-7-2 (Continued)

	Station					
	7 A	7 B	8 A	8 B	9 A	9 B
Lecane luna					200	
Lepadella patella		200			200	
monogonont (unidentified)	400		200	200		
Monostyla bulla						
Monostyla closterocerca		200				
Monostyla lunaris						
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum		200				
TARDIGRADA				100		
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca		10				10
Cladocera						
Alona barbulata						
Alona circumfimbriata		10				10
Ceriodaphnia quadiangulu						
Cliydorus sphaerious						
Pleuroxus aduncus		10			20	
Scapholeberis kingi						
Simocephalus vetulus		10				
Copepoda						
Nauplii			400			
Cyclopoid copepodites		20				10
Harpacticoid copepodites						
Bryocamptus hiemalis						
Cyclops vernalis						
Eucyclops agilis		10	10			30
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified	1230	540	50	40	1380	1770

APPENDIX D-7-2 (Continued)

	Station 10 A	 10 B	 11 A	 11 B	 12 A	 12 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata						
Centropyxis arcelloides						
Centropyxis constricta						200
Chilodonella sp.						
ciliates (unidentified)						1400
Cyphoderia ampulla						
Difflugia acuminata						
Difflugia lebes						
Difflugia sp.						
Epistylis sp.						
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.						200
ROTIFERA						
bdelloidea (unidentified)					2400	800
Cepholodella forficula						
Cephalodella gibba						
Cephalodella sp.						
Colurella adriatica						200
Euchlanis dilatata						

APPENDIX D-7-2 (Continued)

	Station					
	10 A	10 B	11 A	11 B	12 A	12 B
Lecane luna						
Lepadella patella						
monogonont (unidentified)						
Monostyla bulla						
Monostyla closterocerca						
Monostyla lunaris						
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum						
TARDIGRADA					10	
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodaphnia quadiangula					10	
Cliydorus sphaerious						
Pleuroxus aduncus						
Scapholeberis kingi						
Simocephalus vetulus					10	
Copepoda						
Nauplii					200	
Cyclopoid copepodites						
Harpacticoid copepodites						
Bryocamptus hiemalis					10	
Cyclops vernalis						
Eucyclops agilis						
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)					10	

APPENDIX D-7-2 (Continued)

	Station					
	13	13	14	14	15	15
	A	B	A	B	A	B
PROTOZOA						
Arcella polypora					Dry	
Bresslaua sp.						
Centropyxis aculeata	200	200	200			
Centropyxis arcelloides						
Centropyxis constricta	1600	400	800	200		
Chilodonella sp.						
ciliates (unidentified)	200			200		
Cyphoderia ampulla						
Difflugia acuminata						
Difflugia lebes			200			
Difflugia sp.						
Epistylis sp.						
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.						
ROTIFERA						
bdelloidea (unidentified)				800		
Cepholodella forficula						
Cephalodella gibba						
Cephalodella sp.						
Colurella adriatica			400			
Euchlanis dilatata	200		1000			

APPENDIX D- 7-2 (Continued)

	Station					
	13 A	13 B	14 A	14 B	15 A	15 B
Lecane luna						
Lepadella patella	200		1200	200		
monogonont (unidentified)		200	21000	2800		
Monostyla bulla						
Monostyla closterocerca			3800	1400		
Monostyla lunaris						
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata			200			
Trichatria pocillum						
TARDIGRADA		10				
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata				10		
Ceriodaphnia quadiangulu		10	10480	1280		
Cliydorus sphaerious						
Pleuroxus aduncus						
Scapholeberis kingi						
Simocephalus vetulus						
Copepoda						
Nauplii			1600	1400		
Cyclopoid copepodites		10	320	370		
Harpacticoid copepodites						
Bryocamptus hiemalis		10				
Cyclops vernalis						
Eucyclops agilis			80	90		
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)			110	190		

APPENDIX D-7-2 (Continued)

	Station					
	16 A	16 B	17 A	17 B	18 A	18 B
	Dry				Dry	
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata						
Centropyxis arcelloides						
Centropyxis constricta						
Chilodonella sp.						
ciliates (unidentified)			2400			
Cyphoderia ampulla						
Difflugia acuminata						
Difflugia lebes						
Difflugia sp.						
Epistylis sp.						
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.			200			
ROTIFERA						
bdelloidea (unidentified)				1200		
Cepholodella forficula						
Cephalodella gibba						
Cephalodella sp.						
Colurella adriatica						
Euchlanis dilatata				400		

APPENDIX D-7-2 (Continued)

	Station					
	16 A	16 B	17 A	17 B	18 A	18 B
Lecane luna				400		
Lepadella patella						
monogonont (unidentified)			5000	5200		
Monostyla bulla						
Monostyla closterocerca			200			
Monostyla lunaris						
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum						
TARDIGRADA						
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodaphnia quadiangulu						
Cliydorus sphaerious						
Pleuroxus aduncus						
Scapholeberis kingi						
Simocephalus vetulus						
Copepoda						
Nauplii						
Cyclopoid copepodites						
Harpacticoid copepodites						
Bryocamptus hiemalis						
Cyclops vernalis						
Eucyclops agilis						
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)						

APPENDIX D-7-2 (Continued)

	Station					
	19 A	19 B	20 A	20 B	21 A	21 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.	200					
Centropyxis aculeata						
Centropyxis arcelloides					200	
Centropyxis constricta	200			200		200
Chilodonella sp.						
ciliates (unidentified)		200		200		
Cyphoderia ampulla						
Difflugia acuminata						
Difflugia lebes		200	800	400	400	600
Difflugia sp.						
Epistylis sp.						
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.		400				
ROTIFERA						
bdelloidea (unidentified)	800	5800				
Cepholodella forficula		200				
Cephalodella gibba						200
Cephalodella sp.						
Colurella adriatica		200	3200	1600	1600	3600
Euchlanis dilatata	3400	3600	600	200	400	600

APPENDIX D- 7-2 (Continued)

	Station					
	19 A	19 B	20 A	20 B	21 A	21 B
Lecane luna	1000	1400	1200	1800	200	600
Lepadella patella	400	2000				
monogonont (unidentified)	400	1400	200	200		1000
Monostyla bulla	400	1600	400		200	
Monostyla closterocerca	200					200
Monostyla lunaris						
Monostyla quadridentata						200
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum						
TARDIGRADA						
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca	50	20				
Cladocera						
Alona barbulata	10					
Alona circumfimbriata	6050	1780	20	40	30	
Ceriodaphnia quadiangulu	10					
Cliydorus sphaerious						
Pleuroxus aduncus	630	220	7850	2710	4920	4720
Scapholeberis kingi						
Simocephalus vetulus	70	100	900	690	810	850
Copepoda				800		
Nauplii	200		800		400	600
Cyclopoid copepodites	1030	420	530	330	310	430
Harpacticoid copepodites						
Bryocamptus hiemalis	10					
Cyclops vernalis	20					
Eucyclops agilis	80	130	1840	1600	590	720
Eucyclops speratus	10			10		
Ostiucoda						
Ostiucoda (unidentified)	10	30			20	50

APPENDIX D-7-2 (Continued)

	Station					
	22 A	22 B	23 A	23 B	24 A	24 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata			10200	7000	6400	3800
Centropyxis arcelloides			600			400
Centropyxis constricta				7000	6000	5800
Chilodonella sp.						
ciliates (unidentified)				200	1000	400
Cyphoderia ampulla						
Difflugia acuminata	200			200		400
Difflugia lebes	400			200		200
Difflugia sp.						
Epistylis sp.			400	2400	2400	17600
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.						
Testacida sp. (unidentified)						
Vorticella sp.				600		800
ROTIFERA						
bdelloidea (unidentified)		200	400			200
Cepholodella forficula						
Cephalodella gibba			200	400	400	
Cephalodella sp.						
Colurella adriatica	1400	2400	1600	200	200	400
Euchlanis dilatata		400		200		200

APPENDIX D- 7-2 (Continued)

	Station 22 A	 22 B	 23 A	 23 B	 24 A	 24 B
Lecane luna	200	400				
Lepadella patella			400		200	
monogonont (unidentified)	400	400	2600	1600	4200	3400
Monostyla bulla			200	400		
Monostyla closterocerca	200					
Monostyla lunaris				400	200	
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum				600		
TARDIGRADA			10			
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca	10					
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodapnnia quadiangulu						
Cliydorus sphaerious						
Pleuroxus aduncus	450	300				
Scapholeberis kingi						
Simocephalus vetulus	10	20				
Copepoda						
Nauplii	1200	2600	1400			
Cyclopoid copepodites	440					
Harpacticoid copepodites						
Bryocamptus hiemalis						
Cyclops vernalis						
Eucyclops agilis	910	660		10		
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)		20				

APPENDIX D-7-2 (Continued)

	Station 25 A	 25 B	 26 A	 26 B	 27 A	 27 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata	8600	3000	6500	2000	9800	4200
Centropyxis arcelloides		200	600	400	200	200
Centropyxis constricta	8600	500	8800	3500	1400	8000
Chilodonella sp.						
ciliates (unidentified)	800	400	200	400	600	200
Cyphoderia ampulla	200	200	200			
Difflugia acuminata	300	200			200	200
Difflugia lebes				200		
Difflugia sp.						
Epistylis sp.	1600	2400	600			2200
Euglypha compressa						
Paramecium aurelia						
Paramecium sp.						
rhizopods (unidentified)		200		600		
Vorticella sp.		200		400		200
ROTIFERA						
bdelloidea (unidentified)	400		300	200	200	200
Cephalodella forficula						
Cephalodella gibba	600	200	400	200	200	400
Cephalodella sp.						
Colurella adriatica	200	1000		200		
Euchlanis dilatata			200	200		

APPENDIX D-7-2 (Continued)

	Station					
	25 A	25 B	26 A	26 B	27 A	27 B
Lecane luna						
Lepadella patella	600	200	400	600		600
monogonont (unidentified)	2200	2400	2200	2400	1400	5200
Monostyla bulla			400		400	400
Monostyla closterocerca				260		
Monostyla lunaris	200	200	600	600		400
Monostyla quadridentata						
Mytilina ventralis						
Notholca acuminata						
Trichatria pocillum		200		800	200	400
TARDIGRADA						
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodaphnia quadiangulu						
Cliydorus sphaerious						
Pleuroxus aduncus						10
Scapholeberis kingi						
Simocephalus vetulus						
Copepoda						
Nauplii	200		200	200	400	
Cyclopoid copepodites						
Harpacticoid copepodites						
Bryocamptus hiemalis						
Cyclops vernalis						
Eucyclops agilis	20					
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)				10		

APPENDIX D-7-2 (Continued)

	Station 28 A	 28 B	 29 A	 29 B	 30 A	 30 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata	3200	1000	14000	3000	11400	2400
Centropyxis arcelloides		200	600		1800	
Centropyxis constricta	2800	3400	11000	7000	12800	7400
Chilodonella sp.						
ciliates (unidentified)	200	1600	400	400	600	600
Cyphoderia ampulla						200
Difflugia acuminata	400		600		600	
Difflugia lebes	400			400	600	200
Difflugia sp.						
Epistylis sp.		600	600	5400	4000	4000
Euglypha compressa						
Parniecium aurelia						
Paramecium sp.					200	
Testacida sp. (unidentified)		600		800		200
Vorticella sp.		200	400	200		
ROTIFERA						
bdelloidea (unidentified)	200					
Cepholodella forficula						200
Cephalodella gibba	200	200	400	800	200	
Cephalodella sp.						200
Colurella adriatica			200			
Euchlanis dilatata		400		200		

APPENDIX D- 7-2 (Continued)

	Station					
	28 A	28 B	29 A	29 B	30 A	30 B
Lecane luna						
Lepadella patella	600		400	400	200	400
monogonont (unidentified)	1000	3200	4000	2000	2800	
Monostyla bulla					200	
Monostyla closterocerca					200	
Monostyla lunaris	400	200				
Monostyla quadridentata						
Mytilina ventralis						
Nothclca acuminata						
Trichatria pocillum			200	400		200
TARDIGRADA						
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodaphnia quadiangulu						
Cliydorus sphaerious						
Pleuroxus aduncus					30	
Scapholeberis kingi					10	
Simocephalus vetulus						
Copepoda						
Nauplii		200				400
Cyclopoid copepodites						
Harpacticoid copepodites						
Bryocamptus hiemalis						
Cyclops vernalis						10
Eucyclops agilis						
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)						

APPENDIX D-7-2 (Continued)

	Station					
	31 A	31 B	32 A	32 B	33 A	33 B
PROTOZOA						
Arcella polypora						
Bresslaua sp.						
Centropyxis aculeata	5600	8600	6600	6000	5600	4000
Centropyxis arcelloides	600		1200	200	1400	200
Centropyxis constricta	8800	10000	5600	4800	12200	7600
Chilodonella sp.						
ciliates (unidentified)		20	200	200		
Cyphoderia ampulla	200	200				
Difflugia acuminata			600	400		
Difflugia lebes	400	200	200		400	200
Difflugia sp.						
Epistylis sp.	1600	800	1600	1400	200	
Euglypha compressa	200					
Parniecium aurelia			200			
Paramecium sp.						
Testacida sp. (unidentified)	200	1400	1400	1400	600	
Vorticella sp.		400	400			200
ROTIFERA						
bdelloidea (unidentified)			200		400	
Cepholodella *forficula*	200					
Cephalodella gibba		400	600		400	
Cephalodella sp.		200				
Colurella adriatica	200	200	200			
Euchlanis dilatata		200				

APPENDIX D- 7-2 (Continued)

	Station 31 A	Station 31 B	Station 32 A	Station 32 B	Station 33 A	Station 33 B
Lecane luna						
Lepadella patella	200	400	400	200	400	200
monogonont (unidentified)	1000	2600	2500	3400	2000	3200
Monostyla bulla						600
Monostyla closterocerca					400	
Monostyla lunaris	600	200		200	400	200
Monostyla quadridentata						
Mytilina ventralis			200			
Notholca acuminata						
Trichotria pocillum	400	200	200	200	400	600
TARDIGRADA						
ARTHROPODA						
Crustacea						
Amphipoda						
Hyallella azteca						
Cladocera						
Alona barbulata						
Alona circumfimbriata						
Ceriodaphnia quadiangulu						
Chydorus sphaericus						
Pleuroxus aduncus						
Scapholeberis kingi						
Simocephalus vetulus						
Copepoda						
Nauplii						200
Cyclopoid copepodites						
Harpacticoid copepodites						
Bryocamptus hiemalis						
Cyclops vernalis						
Eucyclops agilis	20					
Eucyclops speratus						
Ostiucoda						
Ostiucoda (unidentified)						

APPENDIX D-7-2 (Continued)

	Station			
	34 A	34 B	35 A	35 B
PROTOZOA				
Arcella polypora				
Bresslaua sp.				
Centropyxis aculeata	7400	6600	5000	6200
Centropyxis arcelloides	2200	400	400	
Centropyxis constricta	8800	13400	8200	15000
Chilodonella sp.				
ciliates (unidentified)	400	400		
Cyphoderia ampulla				
Difflugia acuminata	200			
Difflugia lebes			400	
Difflugia sp.				
Epistylis sp.		2000	400	3000
Euglypha compressa				
Parniecium aurelia				
Paramecium sp.				
Testacida sp. (unidentified)	400	200	600	200
Vorticella sp.	200			
ROTIFERA				
bdelloidea (unidentified)				
Cepholodella forficula				
Cephalodella gibba	400	200	1200	600
Cephalodella sp.				
Colurella adriatica			200	
Euchlanis dilatata				

APPENDIX D- 7-2 (Continued)

	Station			
	34 A	34 B	35 A	35 B
Lecane luna				
Lepadella patella		400	200	200
monogonont (unidentified)	2800	4400	3600	3400
Monostyla bulla	200			400
Monostyla closterocerca	400	400		
Monostyla lunaris			200	
Monostyla quadridentata				
Mytilina ventralis				
Notnolca acuminata				
Trichatria pocillum	200	1000	200	200
TARDIGRADA				
ARTHROPODA				
Crustacea				
Amphipoda				
Hyallella azteca				
Cladocera				
Alona barbulata				
Alona circumfimbriata				
Ceriodaphnia quadiangulu				
Cliydorus sphaerious				
Pleuroxus aduncus				
Scapholeberis kingi				
Simocephalus vetulus				
Copepoda				
Nauplii				200
Cyclopoid copepodites				
Harpacticoid copepodites				
Bryocamptus hiemalis				
Cyclops vernalis				
Eucyclops agilis				
Eucyclops speratus				
Ostiucoda				
Ostiucoda (unidentified)				

2.4. Periphyton

2.4.4 Periphyton

2.4.4.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.4.1 of Progress Report 3 for specific objectives.

2.4.4.2 Methods

No change in methods has occurred since Progress Report 3. See section 2.4.4.2 of Progress Report 2 and 3 for specific methods.

2.4.4.3 Results

A list of 65 algal taxa observed in July - August is given in Appendix D-9-1. The quantitative data from those collections are presented in Appendix D-9-2. Periphytic algal densities were low at Headwater stations in July - August. *Achnanthes minutissima* and *Bicoeca lacustris* were the the most abundant species. *Achnanthes minutissima* and *Nitzschia denticula* were the most abundant at the Tract stations. Each of the lower Yellow Creek stations had different major abundance species during the July - August 1975 sampling. At Station 19, *Navicula cryptocephala* and *Nitzschia fonticola* were most abundant. Station 20 had low algal densities and *Navicula pelliculos*, *Navicula cryptocephala* and *Nitzschia fonticola* were most abundant. *Lyngbya* spp., *Nitzschia fonticola*, *Achnanthes minutissima*, and *Amphora ovalis* var. *pediculus* were most abundant at Station 21. *Navicula pelliculosa* was ten times more abundant than any other species at Station 22.

The most abundant algal taxa at the White River stations included *Lyngbya* spp. and *Amphora ovalis* var. *pediculus*. The 61 algal taxa found in the periphyton collected during the August - September 1975 sampling period are listed in Appendix D-10-1. Quantitative data from those collections are included in Appendix D-10-2. In August - September *Achnanthes minutissima* dominated the periphyton at almost all stations other than those in the White River. Only at Station 1, a Headwater station, was *Bicoeca lacustris* most abundant. *Epithemia sorex* was the most abundant species at White River stations.

2.4.4 - Periphyton Data

RBOSP PROGRESS REPORT

APPENDIX D-8-1

CHLOROPHYLL A OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX D-8-1

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975.[1] (Data are expressed as mg Chlorophyll a per cm^2.)

Station	Replicate A	Replicate B	Replicate C
1	.0010	.0008	.0003
2	.0020	.0020	.0001
3	.0007	.0006	.0008
4	.0004	.0002	.0000
5	.0010	.0010	.0020
6	.0000	<.0000	.0001
7	.0003	.0003	.0004
8	.0000	.0001	.0005
9	.0008	.0004	.0000
13	.0000	.0001	.0000
14	.0060	.0043	.0032
19	.0032	.0056	.0090
20	.0004	.0015	.0009
21	.0020	.0014	.0011
22	.0009	.0015	.0021
23	.0075	.0038	.0048
24	.0077	.0006	.0130
25	.0001	.0012	.0018
26	.0017	.0006	.0020
27	.0000	.0005	.0010
28	.0004	.0025	.0028
29	.0017	.0025	.0002
30	.0014	.0045	.0050
31	.0019	.0016	.0010
32	.0005	.0062	.0029
33	.0040	.0001	.0029
34	.0010	.0051	.0027
35	.0004	.0004	.0012

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[1] Stations 10-12 and 15-18 were dry at the time of sampling.

APPENDIX D- 8-2

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1975

APPENDIX D-8-2

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

CYANOPHYTA

Plectonema spp.

CHRYSOPHYTA

Cyclotella meneghiniana
Fragilaria pinnata
Asterionella formosa
Cocconeis placentula
Synedra amphicephala
Synedra pulchella
Synedra ulna
Achnanthes lanceolata
Achnanthes minutissima
Gyrosigma acuminatum
Navicula arvensis
Navicula cryptocephala
Navicula cuspidata
Navicula gregaria
Navicula viridula
Navicula spp.
Pinnularia brebissonii
Amphera ovalis var. *pediculus*
Caloneis bacillum
Cymbella affinis
Cymbella sinuata
Cymbella ventricosa
Gomphonema intricatum
Gomphonema olivaceum
Gomphonema parvulum
Amphiprora alata
Rhopalodia gibba
Nitzschia apiculata
Nitzschia acicularis
Nitzschia dissipata
Nitzschia frustulum
Nitzschia hungarica
Nitzschia palea
Surirella ovata
Surirella ovalis

RBOSP PROGRESS REPORT

APPENDIX D-8-3

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX D - 8 - 3

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975.

SITE = 80 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	34.00
SYNEDRA PULCHELLA	7.00
ACHNANTHES MINUTISSIMA	4265.00
NAVICULA CRYPTOCEPHALA	14.00
CYMBELLA AFFINIS	20.00
CYMBELLA VENTRICOSA	40.00
AMPHIPRORA ALATA	.10
RHOPALODIA GIBBA	.05
NITZSCHIA PALEA	20.00
NITZSCHIA VERMICULARIS	.05
SURIRELLA OVALIS	.06

APPENDIX D - 8 - 3 (Continued)

SITE = 8D REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
PLECTONEMA SPP.	9.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	19.00
SYNEDRA PULCHELLA	.10
ACHNANTHES MINUTISSIMA	1398.00
GYROSIGMA ACUMINATUM	.10
CYMBELLA AFFINIS	9.00
CYMBELLA VENTRICOSA	9.00
NITZSCHIA PALEA	9.00
SURIRELLA OVALIS	.10

APPENDIX D - 8 - 3 (Continued)

SITE = 80 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	33.00
ACHNANTHES MINUTISSIMA	1427.00
NAVICULA VIRIDULA	4.00
CYMBELLA AFFINIS	4.00
NITZSCHIA HUNGARICA	.10
NITZSCHIA PALEA	4.00

APPENDIX D - 8 - 3 (Continued)

SITE = 81 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	236.00
CYCLOTELLA MENEGHINIANA	7.00
SYNEDRA AMPHICEPHALA	20.00
SYNEDRA PULCHELLA	7.00
ACHNANTHES MINUTISSIMA	6804.00
GYROSIGMA ACUMINATUM	.06
NAVICULA CRYPTOCEPHALA	61.00
NAVICULA GREGARIA	14.00
CYMBELLA AFFINIS	20.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA INTRICATUM	101.00
AMPHIPRORA ALATA	14.00
NITZSCHIA APICULATA	7.00
NITZSCHIA FRUSTULUM	47.00
NITZSCHIA MICROCEPHALA	7.00
NITZSCHIA PALEA	108.00
SURIRELLA OVATA	68.00
SURIRELLA OVALIS	.30

APPENDIX D - 8 - 3 (Continued)

SITE = B1 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
PLECTONEMA SPP.	27.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	162.00
SYNEDRA PULCHELLA	40.00
ACHNANTHES MINUTISSIMA	1876.00
GYROSIGMA ACUMINATUM	.20
PLEUROSIGMA DELICATULUM	.10
NAVICULA CUSPIDATA	.20
CYMBELLA VENTRICOSA	14.00
GOMPHONEMA INTRICATUM	27.00
NITZSCHIA FRUSTULUM	40.00
NITZSCHIA PALEA	58.00
SURIRELLA OVALIS	.10

APPENDIX D - 8 - 3 (Continued)

SITE = 81 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
PLECTONEMA SPP.	7.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	27.00
SYNEDRA PULCHELLA	14.00
ACHNANTHES MINUTISSIMA	992.00
NAVICULA CRYPTOCEPHALA	7.00
CYMBELLA AFFINIS	7.00
GOMPHONEMA INTRICATUM	7.00
GOMPHONEMA PARVULUM	7.00
NITZSCHIA MICROCEPHALA	7.00
NITZSCHIA PALEA	40.00
SURIRELLA OVATA	14.00
SURIRELLA OVALIS	.18

APPENDIX D - 8 - 3 (Continued)

SITE = 83 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES LANCEOLATA	5.00
ACHNANTHES MINUTISSIMA	12.00
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	8.00
NAVICULA SPP.	2.00
CALONEIS BACILLUM	2.00
CYMBELLA SINUATA	8.00
CYMBELLA VENTRICOSA	4.00
GOMPHONEMA INTRICATUM	2.00
GOMPHONEMA OLIVACEUM	121.00
NITZSCHIA ACICULARIS	2.00
NITZSCHIA DISSIPATA	2.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA PALEA	15.00
SURIRELLA OVATA	2.00

APPENDIX D. - 8 - 3 (Continued)

SITE = 83 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA PINNATA	1.00
ASTERIONELLA FORMOSA	.12
COCCONEIS PLACENTULA	2.00
ACHNANTHES MINUTISSIMA	11.00
GOMPHONEMA OLIVACEUM	2.00
NITZSCHIA FRUSTULUM	1.00
NITZSCHIA LINEARIS	1.00
NITZSCHIA PALEA	1.00

APPENDIX D - 8 - 3 (Continued)

SITE = 83 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	4.00
SYNEDRA AMPHICEPHALA	2.00
SYNEDRA ULNA	.50
COCCONEIS PLACENTULA	7.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	28.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA VIRIDULA	2.00
PINNULARIA BREBISSONII	2.00
AMPHORA OVALIS VAR. PEDICULUS	2.00
CYMBELLA SINUATA	15.00
GOMPHONEMA OLIVACEUM	54.00
NITZSCHIA ACICULARIS	4.00
NITZSCHIA DISSIPATA	2.00
NITZSCHIA PALEA	10.00

RBOSP PROGRESS REPORT

APPENDIX D- 8-4

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES

MAY - JUNE 1975

APPENDIX D-8 - 4

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975.[1]

Station Replicate	Dry Weight (g)	Organic Weight (g)
20-A	0.2705	0.0310
20-B	0.1586	0.0172
20-C	0.1458	0.0174
21-A	0.1700	0.0245
21-B	0.0439	0.0006
21-C	0.1508	0.0273
23-A	0.0573	0.0182
23-B	0.0096	0.0013
23-C	0.0631	0.0163

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[1] Substrates for stations 27, 29, and 35 were lost.

APPENDIX D- 8-5

CHLOROPHYLL A CONCENTRATIONS FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX D- 8-5

CHLOROPHYLL A CONCENTRATIONS FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975.

(Data are expressed as mg/cm^2).

Station	Replicate		
	A	B	C
20	.0007	.0005	.0005
21	.0017	.0016	<.0001
23	<.0001	.0001	<.0001

APPENDIX D- 9-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-9-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, JULY-AUGUST 1975

CYANOPHYTA

Calothrix spp.
Lyngbya spp.
Oscillatoria spp.
Plectonema spp.

CHLOROPHYTA

Cladophora spp.
Stigeoclonium spp.

CHRYSOPHYTA

Achnanthes clevei
Achnanthes hauckiana
Achnanthes lanceolata
Achnanthes minutissima
Achnanthes spp.
Amphora montana
Amphora ovalis
Amphora ovalis var. *pediculus*
Amphipleura pellucida
Amphiprora alata
Anomoeoneis sphaerophora
Caloneis amphisbaena
Caloneis bacillum
Caloneis ventricosa
Chrysophyta I
Cocconeis pediculus
Cocconeis placentula
Cyclotella meneghiniana
Cylindrotheca gracilis
Cymatopleura solea
Cymbella affinis
Cymbella cistula
Cymbella microcephala
Cymbella prostrata
Cymbella sinuata
Cymbella tumida
Cymbella ventricosa
Diatoma vulgare
Epithemia sorex
Epithemia zebra
Fragilaria construens
Fragilaria crotonensis

APPENDIX D-9-1 (Continued)

Fragilaria leptostauron
Fragilaria pinnata
Fragilaria vaucheriae
Gomphonema acuminatum
Gomphonema constrictum
Gomphonema intricatum
Gomphonema lanceolatum
Gomphonema olivaceum
Gomphonema parvulum
Gomphonema ventricosum
Gyrosigma acuminatum
Hantzschia amphioxys
Mastogloia smithii
Melosira roeseana
Meridion circulare
Navicula arvensis
Navicula cryptocephala
Navicula cuspidata
Navicula gregaria
Navicula lanceolata
Navicula mutica
Navicula pelliculosa
Navicula radiosa
Navicula salinarum
Navicula salinarum var. *intermedia*
Navicula tantula
Navicula tripunctata
Navicula vaucheriae
Navicula virdula
Navicula sp. 1
Navicula sp. 2
Navicula sp. 5
Navicula sp. 6
Nitzschia acicularis
Nitzschia angustata
Nitzschia apiculata
Nitzschia baccata
Nitzschia capitellata
Nitzschia chasei
Nitzschia denticula
Nitzschia fonticola
Nitzschia frustulum
Nitzschia gracilis
Nitzschia holsatica
Nitzschia linearis
Nitzschia microcephala
Nitzschia palea
Nitzschia tryblionella
Nitzschia vermicularis
Nitzschia sp. 1

APPENDIX D-9-1 (Continued)

Pinnularia borealis
Pinnularia brebissonii
Pleurosigma delicatulum
Rhoicosphenia curbata
Rhopalodia gibba
Rhopalodia gibberula
Surirella angustata
Surirella ovata
Surirella ovalis
Synedra amphicephala
Synedra famelica
Synedra minuscula
Synedra pulchella
Synedra rumpens
Synedra tenera
Synedra ulna
Thalassiosira fluviatilis

RBOSP PROGRESS REPORT

APPENDIX D- 9- 2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX [illegible]-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

Site = 01 Rep = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA 1	213.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	40.00
NAVICULA CRYPTOCEPHALA	5.00
NAVICULA GREGARIA	2.00
NAVICULA VIRIDULA	[illegible]
NAVICULA SP 1	2.00
NAVICULA SP 2	2.00
CALONEIS BACILLUM	2.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA PALEA	6.00

APPENDIX D-9-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1096.00
CHRYSOPHYTA I	44.00
ACHNANTHES MINUTISSIMA	10.00
NAVICULA ARVENSIS	10.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA GREGARIA	7.00
NAVICULA SP 2	.06
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	

APPENDIX D-9-2 (Continued)

SITE = C1 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA I	810.00
ACHNANTHES MINUTISSIMA	597.00
NAVICULA [illegible]	10.00
NAVICULA CRYPTOCEPHALA	7.00
CYMBELLA AFFINIS	3.00
GOMPHONEMA INTRICATUM	24.00
NITZSCHIA FRUSTULUM	3.00

APPENDIX D-[illegible]2 (Continued)

SITE = 02 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA I	14.00
SYNEDRA AMPHICEPHALA	34.00
ACHNANTHES INUTISSIMA	533.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA GREGARIA	3.00
NAVICULA SP 2	3.00
AMPHORA OVALIS VAR. PEDICULUS	7.00
GOMPHONEMA INTRICATUM	54.00
NITZSCHIA LINEARIS	12
NITZSCHIA PALEA	[illegible]
SURIRELLA OVALIS	.05

APPENDIX D-9-2 (Continued)

SITE = 02 REP = 2

TAXA	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA 1	43.00
ACHNANTHES LANCEOLATA	6.00
ACHNANTHES MINUTISSIMA	56.00
NAVICULA ARVENSIS	11.00
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA SP 1	11.00
PINNULARIA BREBISSONII	4.21
AMPHORA OVALIS	6.00
GOMPHONEMA INTRICATUM	2.00
EPITHEMIA SOREX	4.00

APPENDIX D-9-2 (Continued)

SITE = 02 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	47.00
CHRYSOPHYTA I	2.00
SYNEDRA AMPHICEPHALA	43.00
ACHNANTHES LANCEOLATA	130.00
ACHNANTHES MINUTISSIMA	2.00
NAVICULA SP I	4.00
GOMPHONEMA INTRICATUM	2.00
NITZSCHIA FRUSTULUM	

APPENDIX D-9-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
MERIDION CIRCULARE	2.00
SYNEDRA AMPHICEPHALA	2.00
ACHNANTHES LANCEOLATA	9.00
ACHNANTHES MINUTISSIMA	9.00
ANOMOEONEIS SPHAEROPHORA	6.00
NAVICULA CRYPTOCEPHALA	25.00
NAVICULA PELLICULOSA	5.00
NAVICULA SP 1	29.00
NAVICULA SP 2	27.00
PINNULARIA BREBISSONII	2.00
AMPHORA SP 1	2.00
EPITHEMIA ZEBRA	4.00
NITZSCHIA DENTICULA	2.00
NITZSCHIA FRUSTULUM	34.00
NITZSCHIA LINEARIS	4.00
NITZSCHIA PALEA	11.00

APPENDIX D-9-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	10.00
CHRYSOPHYTA I	2.00
SYNEDRA AMPHICEPHALA	2.00
SYNEDRA TENERA	62.00
ACHNANTHES LANCEOLATA	77.00
ACHNANTHES MINUTISSIMA	7.00
ANOMOEONEIS SPHAEROPHORA	7.00
NAVICULA ARVENSIS	109.00
NAVICULA CRYPTOCEPHALA	12.00
NAVICULA PELLICULOSA	1.00
NAVICULA VIRIDULA	32.00
NAVICULA SP 1	23.00
NAVICULA SP 2	.03
PINNULARIA BREBISSONII	3.00
AMPHORA OVALIS	8.00
GOMPHONEMA INTRICATUM	.06
EPITHEMIA ZEBRA	2.00
NITZSCHIA DENTICULA	37.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA LINEARIS	32.00
NITZSCHIA PALEA	.12
SURIRELLA OVALIS	

APPENDIX D-9-2 (Continued)

SITE = 03 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA I	34.00
MELOSIRA ROESEANA	4.00
ACHNANTHES LANCEOLATA	67.00
ACHNANTHES MINUTISSIMA	137.00
ANOMOEONEIS SPHAEROPHORA	9.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	101.00
NAVICULA PELLICULOSA	11.00
NAVICULA SP 1	49.00
NAVICULA SP 2	63.00
PINNULARIA BREBISSONII	2.00
CYMBELLA AFFINIS	4.00
GOMPHONEMA INTRICATUM	6.00
GOMPHONEMA PARVULUM	2.00
EPITHEMIA ZEBRA	.08
NITZSCHIA DENTICULA	2.00
NITZSCHIA FRUSTULUM	29.00
NITZSCHIA LINEARIS	2.00
NITZSCHIA MICROCEPHALA	2.00
NITZSCHIA PALEA	56.00
SURIRELLA OVALIS	.16

APPENDIX D-9-2 (continued)

SITE = 04 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA I	112.00
MERIDION CIRCULARE	18.00
ACHNANTHES LANCEOLATA	22.00
ACHNANTHES MINUTISSIMA	2218.00
GYROSIGMA ACUMINATUM	4.00
NAVICULA ARVENSIS	9.00
NAVICULA CRYPTOCEPHALA	81.00
NAVICULA MUTICA	4.00
NAVICULA SP 1	13.00
NAVICULA SP 2	5.00
PINNULARIA BREBISSONII	.04
CYMBELLA AFFINIS	9.00
GOMPHONEMA INTRICATUM	45.00
NITZSCHIA DENTICULA	18.00
NITZSCHIA FRUSTULUM	4.00
NITZSCHIA LINEARIS	4.00
NITZSCHIA PALEA	27.00
SURIRELLA OVALIS	.08

APPENDIX D-9-2 (Continued)

SITE = 04 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA 1	54.00
MERIDION CIRCULARE	4.00
SYNEDRA AMPHICEPHALA	4.00
ACHNANTHES LANCEOLATA	4.00
ACHNANTHES MINUTISSIMA	108.00
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	94.00
NAVICULA PELLICULOSA	22.00
GOMPHONEMA INTRICATUM	4.00
NITZSCHIA ACICULARIS	9.00
NITZSCHIA DENTICULA	9.00
NITZSCHIA FRUSTULUM	18.00
NITZSCHIA LINEARIS	22.00
NITZSCHIA PALEA	36.00
NITZSCHIA SP 1	22.00
SURIRELLA OVATA	4.00
SURIRELLA OVALIS	4.00

APPENDIX D-9-2 (Continued)

SITE = 04 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA 1	85.00
MERIDION CIRCULARE	4.00
ACHNANTHES LANCEOLATA	13.00
ACHNANTHES MINUTISSIMA	81.00
GYROSIGMA ACUMINATUM	.50
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	125.00
NAVICULA PELLICULOSA	32.00
NAVICULA SP 1	22.00
NAVICULA SP 2	9.00
CYMBELLA AFFINIS	13.00
GOMPHONEMA INTRICATUM	9.00
CYLINDROTHECA GRACILIS	4.00
NITZSCHIA ACICULARIS	4.00
NITZSCHIA DENTICULA	4.00
NITZSCHIA LINEARIS	13.00
NITZSCHIA PALEA	45.00
SURIRELLA OVALIS	.04

APPENDIX D-9-2 (Continued)

SITE = 05 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	29.00
SYNEDRA FAMELICA	19.00
SYNEDRA ULNA	9.00
COCCONEIS PLACENTULA	38.00
ACHNANTHES LANCEOLATA	9.00
ACHNANTHES MINUTISSIMA	[illegible]
[illegible]	[illegible]
[illegible]	19.00
NAVICULA CRYPTOCEPHALA	[illegible]
NAVICULA LANCEOLATA	[illegible]
NAVICULA PELLICULOSA	[illegible]
NAVICULA RADIOSA	9.00
NAVICULA SP 1	9.00
AMPHORA SP 1	9.00
CYMBELLA AFFINIS	9.00
GOMPHONEMA OLIVACEUM	19.00
EPITHEMIA ZEBRA	9.00
CYLINDROTHECA GRACILIS	19.00
NITZSCHIA ACICULARIS	164.00
NITZSCHIA BACCATA	29.00
NITZSCHIA CAPITELLATA	9.00

APPENDIX D-9-2 (Continued)

SITE - C5 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DENTICULA	9.00
NITZSCHIA FRUSTULUM	106.00
NITZSCHIA PALEA	135.00
NITZSCHIA TRYBLIONELLA	9.00
SURIRELLA OVATA	19.00

APPENDIX D-9-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
SYNEDRA AMPHICEPHALA	3.00
COCCONEIS PLACENTULA	40.00
ACHNANTHES LANCEOLATA	27.00
ACHNANTHES MINUTISSIMA	57.00
RHOICOSPHENIA CURVATA	7.00
GYROSIGMA ACUMINATUM	.12
PLEUROSIGMA DELICATULUM	17.00
NAVICULA CRYPTOCEPHALA	20.00
NAVICULA LANCEOLATA	7.00
NAVICULA PELLICULOSA	7.00
NAVICULA RADIOSA	3.00
NAVICULA VAUCHERIAE	3.00
NAVICULA SP 1	20.00
NAVICULA SP 2	3.00
CALONEIS VENTRICOSA	3.00
PINNULARIA BREBISSONII	.06
GOMPHONEMA INTRICATUM	10.00
GOMPHONEMA OLIVACEUM	7.00
HANTZSCHIA AMPHIOXYS	3.00
NITZSCHIA ACICULARIS	3.00

APPENDIX D-9-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	51.00
NITZSCHIA MICROCEPHALA	7.00
NITZSCHIA PALEA	30.00

APPENDIX D-9-2 (Continued)

SITE = 05 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
MERIDION CIRCULARE	3.00
COCCONEIS PLACENTULA	24.00
ACHNANTHES MINUTISSIMA	47.00
PLEUROSIGMA DELICATULUM	10.00
NAVICULA CRYPTOCEPHALA	20.00
NAVICULA RADIOSA	3.00
NAVICULA SP 1	14.00
PINNULARIA BREBISSONII	3.00
CYMBELLA VENTRICOSA	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA FRUSTULUM	54.00
NITZSCHIA MICROCEPHALA	3.00
NITZSCHIA PALEA	10.00
SURIRELLA OVATA	3.00

APPENDIX D-9-2 (Continued)

SITE = 07 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA ULNA	4.00
ACHNANTHES MINUTISSIMA	1062.00
GYROSIGMA ACUMINATUM	.12
NAVICULA CRYPTOCEPHALA	4.00
NITZSCHIA DENTICULA	40.00
NITZSCHIA PALEA	13.00
SURIRELLA OVALIS	.04

APPENDIX D-9-2 (Continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
OSCILLATORIA SPP	4.00
CHRYSOPHYTA	
CHRYSOPHYTA 1	22.00
FRAGILARIA CROTONENSIS	22.00
ACHNANTHES MINUTISSIMA	1750.00
GYROSIGMA ACUMINATUM	4.00
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	36.00
NAVICULA PELLICULOSA	9.00
NAVICULA SP 2	13.00
AMPHORA OVALIS VAR. PEDICULUS	4.00
GOMPHONEMA INTRICATUM	4.00
RHOPALODIA GIBBERULA	4.00
NITZSCHIA ACICULARIS	4.00
NITZSCHIA CAPITELLATA	4.00
NITZSCHIA DENTICULA	13.00
NITZSCHIA FRUSTULUM	13.00
NITZSCHIA LINEARIS	13.00
NITZSCHIA PALEA	4.00

APPENDIX D-9-2 (continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	4.00
SURIRELLA OVATA	.28
SURIRELLA OVALIS	

APPENDIX D-9-2 (Continued)

SITE = 07 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA ULNA	.12
ACHNANTHES LANCEOLATA	7.00
ACHNANTHES MINUTISSIMA	1039.00
GYROSIGMA ACUMINATUM	.72
NAVICULA CRYPTOCEPHALA	74.00
NAVICULA SP 1	7.00
NAVICULA SP 2	7.00
AMPHORA MONTANA	7.00
CYMBELLA AFFINIS	7.00
GOMPHONEMA INTRICATUM	4.00
RHOPALODIA GIBBERULA	7.00
NITZSCHIA CAPITELLATA	14.00
NITZSCHIA DENTICULA	61.00
NITZSCHIA FRUSTULUM	23.00
NITZSCHIA LINEARIS	.24
NITZSCHIA MICROCEPHALA	7.00
NITZSCHIA PALEA	20.00
SURIRELLA OVATA	4.00
SURIRELLA OVALIS	14.00

APPENDIX D-9-2 (Continued)

SITE = OS REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA I	466.00
MERIDION CIRCULARE	3.00
SYNEDRA ULNA	7.00
ACHNANTHES MINUTISSIMA	81.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA PELLICULOSA	7.00
AMPHORA OVALIS VAR. *PEDICULUS*	3.00
NITZSCHIA PALEA	3.00

APPENDIX D-9-2 (Continued)

SITE = CB REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CHRYSOPHYTA I	442.00
MERIDION CIRCULARE	3.00
ACHNANTHES MINUTISSIMA	152.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	3.00
NITZSCHIA HOLSATICA	7.00
NITZSCHIA LINEARIS	.42
NITZSCHIA PALEA	3.00
SURIRELLA OVATA	3.00

APPENDIX D-9-2 (Continued)

SITE = 09 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	817.00
CHRYSOPHYTA I	10.00
MERIDION CIRCULARE	3.00
FRAGILARIA VAUCHERIAE	3.00
ACHNANTHES LANCEOLATA	712.00
ACHNANTHES MINUTISSIMA	24.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA VAUCHERIAE	7.00
CYMBELLA AFFINIS	30.00
GOMPHONEMA INTRICATUM	7.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	3.00
SURIRELLA OVATA	

APPENDIX D-9-2 (Continued)

SITE = 09 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	2.00
ACHNANTHES LANCEOLATA	4.00
ACHNANTHES MINUTISSIMA	36.00
GOMPHONEMA ACUMINATUM	.25
NAVICULA CRYPTOCEPHALA	10.00
NAVICULA SP 1	2.00
NAVICULA SP 2	4.00
CYMBELLA AFFINIS	2.00
NITZSCHIA DENTICULA	2.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA PALEA	1.00

APPENDIX D-9-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	10.00
CHRYSOPHYTA	
CHRYSOPHYTA I	277.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	148.00
GYROSIGMA ACUMINATUM	.50
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	7.00
NAVICULA SP 2	14.00
PINNULARIA BREBISSONII	3.00
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	7.00
NITZSCHIA DENTICULA	30.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA LINEARIS	10.00
NITZSCHIA PALEA	10.00
SURIRELLA OVATA	7.00
SURIRELLA OVALIS	.06

APPENDIX D-9-2 (Continued)

SITE = 09 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	10.00
CHLOROPHYTA	
CLADOPHORA SPP	27.00
CHRYSOPHYTA	
CHRYSOPHYTA I	138.00
SYNEDRA AMPHICEPHALA	3.00
ACHNANTHES LANCEOLATA	20.00
ACHNANTHES MINUTISSIMA	267.00
GYROSIGMA ACUMINATUM	.12
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	7.00
NAVICULA TANTULA	3.00
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	7.00
CYMBELLA SINUATA	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA DENTICULA	7.00

APPENDIX D-9-2 (Continued)

SITE = 09 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	10.00
SURIRELLA OVALIS	.06

APPENDIX D-9-2 (Continued)

SITE = 13 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	118.00
ACHNANTHES LANCEOLATA	17.00
ACHNANTHES MINUTISSIMA	1637.00
NAVICULA ARVENSIS	68.00
NAVICULA CRYPTOCEPHALA	203.00
NAVICULA PELLICULOSA	218.00
NAVICULA SALINARUM VAR. INTERMEDIA	17.00
NAVICULA SP 2	17.00
GOMPHONEMA INTRICATUM	34.00
RHOPALODIA GIBBA	.15
NITZSCHIA CAPITELLATA	84.00
NITZSCHIA FRUSTULUM	84.00
NITZSCHIA HOLSATICA	17.00
NITZSCHIA PALEA	68.00
SURIRELLA OVATA	17.00

APPENDIX J-9-2 (continued)

SITE = 13 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA CONSTRUENS	20.00
FRAGILARIA VAUCHERIAE	88.00
ACHNANTHES MINUTISSIMA	499.00
GYROSIGMA ACUMINATUM	.12
NAVICULA CRYPTOCEPHALA	253.00
NAVICULA PELLICULOSA	128.00
NAVICULA VAUCHERIAE	7.00
NAVICULA VIRIDULA	7.00
NAVICULA SP 1	14.00
NAVICULA SP 2	7.00
CYMBELLA AFFINIS	14.00
GOMPHONEMA INTRICATUM	61.00
GOMPHONEMA OLIVACEUM	7.00
RHOPALODIA GIBBA	7.00
NITZSCHIA CAPITELLATA	68.00
NITZSCHIA DISSIPATA	7.00
NITZSCHIA FRUSTULUM	20.00
NITZSCHIA HOLSATICA	61.00
NITZSCHIA LINEARIS	.36
NITZSCHIA MICROCEPHALA	7.00
NITZSCHIA PALEA	54.00

APPENDIX D-9-2 (Continued)

SITE = 13 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SURIRELLA OVATA	7.00

APPENDIX D-9-2 (Continued)

SITE = .13 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	34.00
ACHNANTHES MINUTISSIMA	371.00
NAVICULA ARVENSIS	17.00
NAVICULA CRYPTOCEPHALA	110.00
NAVICULA CUSPIDATA	.15
NAVICULA PELLICULOSA	169.00
NAVICULA VIRIDULA	17.00
CALONEIS BACILLUM	8.00
CYMBELLA AFFINIS	8.00
GOMPHONEMA INTRICATUM	143.00
NITZSCHIA CAPITELLATA	59.00
NITZSCHIA FRUSTULUM	25.00
NITZSCHIA HOLSATICA	93.00
NITZSCHIA LINEARIS	17.00
NITZSCHIA PALEA	42.00
SURIRELLA OVATA	8.00
SURIRELLA OVALIS	.15

APPENDIX D-9-2 (Continued)

SITE = I4 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	236.00
CHRYSOPHYTA	
FRAGILARIA CROTONENSIS	17.00
FRAGILARIA VAUCHERIAE	34.00
SYNEDRA FAMELICA	607.00
SYNEDRA MINUSCULA	354.00
SYNEDRA RUMPENS	17.00
SYNEDRA TENERA	84.00
SYNEDRA ULNA	1249.00
ACHNANTHES MINUTISSIMA	6234.00
NAVICULA CRYPTOCEPHALA	203.00
NAVICULA VAUCHERIAE	17.00
NAVICULA VIRIDULA	34.00
NAVICULA SP 1	34.00
NAVICULA SP 5	219.00
CYMBELLA AFFINIS	2194.00
CYMBELLA MICROCEPHALA	34.00
CYMBELLA VENTRICOSA	51.00
GOMPHONEMA OLIVACEUM	34.00

APPENDIX D-9-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBA	17.00
NITZSCHIA ACICULARIS	135.00
NITZSCHIA DENTICULA	3223.00
NITZSCHIA DISSIPATA	17.00
NITZSCHIA FRUSTULUM	84.00
NITZSCHIA HOLSATICA	456.00
NITZSCHIA MICROCEPHALA	17.00
NITZSCHIA PALEA	34.00

APPENDIX D-9-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA DENTICULA	1922.00
NITZSCHIA FRUSTULUM	135.00
NITZSCHIA HOLSATICA	1687.00
NITZSCHIA PALEA	180.00

APPENDIX D-9-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
PLECTONEMA SPP	1102.00
CHRYSOPHYTA	
CHRYSOPHYTA I	112.00
CYCLOTELLA MENEGHINIANA	22.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA FAMELICA	338.00
SYNEDRA MINUSCULA	810.00
SYNEDRA TENERA	22.00
SYNEDRA ULNA	878.00
ACHNANTHES MINUTISSIMA	6930.00
NAVICULA ARVENSIS	45.00
NAVICULA CRYPTOCEPHALA	270.00
NAVICULA PELLICULOSA	180.00
NAVICULA SP 1	247.00
NAVICULA SP 5	90.00
AMPHORA OVALIS VAR. PEDICULUS	68.00
CYMBELLA AFFINIS	1170.00
CYMBELLA MICROCEPHALA	160.00
NITZSCHIA ACICULARIS	202.00

APPENDIX D-9.2 (Continued)

SITE = 15 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	57.00
SYNEDRA AMPHICEPHALA	57.00
SYNEDRA MINUSCULA	145.00
SYNEDRA TENERA	106.00
SYNEDRA ULNA	1070.00
ACHNANTHES MINUTISSIMA	463.00
NAVICULA ARVENSIS	9.00
NAVICULA CRYPTOCEPHALA	530.00
NAVICULA PELLICULOSA	299.00
NAVICULA SP 1	106.00
NAVICULA SP 2	19.00
CALONEIS BACILLUM	9.00
CYMBELLA MICROCEPHALA	212.00
CYMBELLA VENTRICOSA	19.00
GOMPHONEMA INTRICATUM	29.00
GOMPHONEMA PARVULUM	9.00
NITZSCHIA ACICULARIS	521.00
NITZSCHIA CAPITELLATA	280.00
NITZSCHIA DENTICULA	1080.00
NITZSCHIA FONTICOLA	347.00
NITZSCHIA FRUSTULUM	405.00

APPENDIX D-9-2 (Continued)

SITE = 14 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA CROTONENSIS	65.00
SYNEDRA FAMELICA	135.00
SYNEDRA MINUSCULA	610.00
SYNEDRA TENERA	22.00
SYNEDRA ULNA	608.00
ACHNANTHES MINUTISSIMA	1317.00
PLEUROSIGMA DELICATULUM	.20
NAVICULA CRYPTOCEPHALA	472.00
NAVICULA VIRIDULA	22.00
NAVICULA SP 1	135.00
NAVICULA SP 2	68.00
NAVICULA SP 5	22.00
CALONEIS BACILLUM	68.00
CYMBELLA AFFINIS	1080.00
CYMBELLA MICROCEPHALA	112.00
GOMPHONEMA OLIVACEUM	22.00
NITZSCHIA ACICULARIS	202.00
NITZSCHIA DENTICULA	1327.00
NITZSCHIA HOLSATICA	45.00
NITZSCHIA PALEA	45.00

[illegible] -3-2 (Continued)

[illegible] REP = 2

TAXA	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	169.00
SYNEDRA MINUSCULA	607.00
SYNEDRA TENERA	135.00
SYNEDRA ULNA	2818.00
ACHNANTHES MINUTISSIMA	962.00
NAVICULA ARVENSIS	34.00
NAVICULA CRYPTOCEPHALA	1266.00
NAVICULA PELLICULOSA	219.00
NAVICULA VIRIDULA	17.00
NAVICULA SP 1	169.00
NAVICULA SP 2	270.00
CALONEIS BACILLUM	17.00
CALONEIS VENTRICOSA	17.00
PINNULARIA BOREALIS	286.00
CYMBELLA MICROCEPHALA	101.00
CYMBELLA VENTRICOSA	1991.00
GOMPHONEMA INTRICATUM	17.00
NITZSCHIA ACICULARIS	345.00
NITZSCHIA CAPITELLATA	2194.00
NITZSCHIA DENTICULA	1417.00
NITZSCHIA FONTICOLA	505.00

APPENDIX J-3-2[illegible] (Continued)

SITE = 15 REP = 1

TAXA	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	1051.00
NITZSCHIA MICROCEPHALA	337.00
NITZSCHIA PALEA	337.00

(Continued)

SITE = 15 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	405.00
NITZSCHIA HOLSATICA	1772.00
NITZSCHIA MICROCEPHALA	203.00
NITZSCHIA PALEA	725.00
SURIRELLA ANGUSTATA	17.00

APPENDIX D-9-2 (Continued)

SITE = 15 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	22.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	135.00
SYNEDRA MINUSCULA	832.00
SYNEDRA TENERA	225.00
SYNEDRA ULNA	2475.00
ACHNANTHES MINUTISSIMA	1035.00
NAVICULA ARVENSIS	58.00
NAVICULA CRYPTOCEPHALA	2250.00
NAVICULA GREGARIA	22.00
NAVICULA PELLICULOSA	405.00
NAVICULA VIRIDULA	22.00
NAVICULA SP 1	135.00
NAVICULA SP 2	202.00
CALONEIS BACILLUM	22.00
AMPHORA SP 1	22.00
CYMBELLA AFFINIS	45.00
CYMBELLA MICROCEPHALA	247.00
CYMBELLA VENTRICOSA	225.00

APPENDIX D-9-2 (Continued)

SITE = 15 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	45.00
NITZSCHIA ACICULARIS	1170.00
NITZSCHIA CAPITELLATA	1282.00
NITZSCHIA DENTICULA	2475.00
NITZSCHIA FONTICULA	562.00
NITZSCHIA FRUSTULUM	503.00
NITZSCHIA HOLSATICA	1657.00
NITZSCHIA MICROCEPHALA	405.00
NITZSCHIA PALEA	1030.00
SURIRELLA OVALIS	.02

APPENDIX D-9-2^{2} (Continued)

SITE = 17 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	34.00
CHRYSOPHYTA	
SYNEDRA ULNA	84.00
ACHNANTHES MINUTISSIMA	17.00
NAVICULA ARVENSIS	84.00
NAVICULA CRYPTOCEPHALA	17.00
NAVICULA PELLICULOSA	1468.00
CYMBELLA MICROCEPHALA	17.00
HANTZSCHIA AMPHIOXYS	17.00
NITZSCHIA ACICULARIS	51.00
NITZSCHIA CAPITELLATA	287.00
NITZSCHIA DENTICULA	34.00
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	51.00
NITZSCHIA HOLSATICA	101.00
NITZSCHIA PALEA	17.00

APPENDIX D-9-2 (Continued)

SITE = 17 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	6.00
CHRYSOPHYTA	
SYNEDRA MINUSCULA	17.00
SYNEDRA TENERA	6.00
SYNEDRA ULNA	11.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA ARVENSIS	11.00
NAVICULA CRYPTOCEPHALA	23.00
NAVICULA PELLICULOSA	112.00
NAVICULA SP 6	6.00
CYMBELLA MICROCEPHALA	6.00
NITZSCHIA ACICULARIS	67.00
NITZSCHIA CAPITELLATA	51.00
NITZSCHIA DENTICULA	28.00
NITZSCHIA FRUSTULUM	6.00
NITZSCHIA HOLSATICA	22.00
NITZSCHIA PALEA	17.00

APPENDIX D-9-2 2 (continued)

SITE = 17 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	25.00
CHLOROPHYTA	
CLADOPHORA SPP	8.00
CHRYSOPHYTA	
CHRYSOPHYTA I	67.00
SYNEDRA MINUSCULA	8.00
SYNEDRA TENERA	67.00
SYNEDRA ULNA	34.00
ACHNANTHES MINUTISSIMA	25.00
NAVICULA ARVENSIS	25.00
NAVICULA CRYPTOCEPHALA	59.00
NAVICULA CUSPIDATA	8.00
NAVICULA PELLICULOSA	456.00
NITZSCHIA ACICULARIS	337.00
NITZSCHIA CAPITELLATA	253.00
NITZSCHIA DENTICULA	34.00
NITZSCHIA FRUSTULUM	25.00

APPENDIX D-9-2 (Continued)

SITE = 17 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	135.00
NITZSCHIA PALEA	17.00

APPENDIX D-9-2 (Continued)

SITE = 18 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA ULNA	.06
ACHNANTHES MINUTISSIMA	2.00
NAVICULA CRYPTOCEPHALA	4.00
NAVICULA MUTICA	2.00
PINNULARIA BOREALIS	1.00
AMPHORA OVALIS	1.00
HANTZSCHIA AMPHIOXYS	1.00
NITZSCHIA ACICULARIS	5.00
NITZSCHIA CAPITELLATA	2.00
NITZSCHIA FONTICOLA	4.00
NITZSCHIA HOLSATICA	2.00
NITZSCHIA PALEA	2.00

APPENDIX D-9-2 (Continued)

SITE = 18 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	45.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	[illegible]
SYNEDRA ULNA	[illegible]
ACHNANTHES MINUTISSIMA	[illegible]
GYROSIGMA ACUMINATUM	[illegible]
NAVICULA CRYPTOCEPHALA	169.00
NAVICULA PELLICULOSA	11.00
NAVICULA SALINARUM	23.00
NAVICULA TRIPUNCTATA	11.00
NAVICULA VIRIDULA	101.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA VENTRICOSA	[illegible]
GOMPHONEMA OLIVACEUM	23.00
NITZSCHIA CAPITELLATA	56.[illegible]
NITZSCHIA FONTICOLA	[illegible]
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	304.00
NITZSCHIA PALEA	[illegible]

APPENDIX D-9-2 (Continued)

SITE = 18 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	1.00
SYNEDRA ULNA	.04
ACHNANTHES MINUTISSIMA	18.00
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA MUTICA	2.00
NAVICULA PELLICULOSA	28.00
NAVICULA TANTULA	1.00
NAVICULA SP 1	3.00
GOMPHONEMA INTRICATUM	3.00
NITZSCHIA ACICULARIS	6.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA HOLSATICA	10.00
NITZSCHIA LINEARIS	.04
NITZSCHIA PALEA	4.00

APPENDIX D-9-2 (Continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	142.00
CALOTHRIX SPP	27.00
CHRYSOPHYTA	
CHRYSOPHYTA 1	40.00
CYCLOTELLA MENEGHINIANA	7.00
DIATOMA VULGARE	54.00
COCCONEIS PLACENTULA	7.00
ACHNANTHES MINUTISSIMA	14.00
GYROSIGMA ACUMINATUM	.24
PLEUROSIGMA DELICATULUM	.12
NAVICULA CRYPTOCEPHALA	250.00
NAVICULA PELLICULOSA	40.00
NAVICULA TANTULA	14.00
NAVICULA TRIPUNCTATA	81.00
NAVICULA VIRIDULA	74.00
NAVICULA SP 1	68.00
NAVICULA SP 2	7.00
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA VENTRICOSA	27.00

APPENDIX D-9-2 (continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	34.00
GOMPHONEMA OLIVACEUM	27.00
RHOPALODIA GIBBA	74.00
RHOPALODIA GIBBERULA	61.00
HANTZSCHIA AMPHIOXYS	7.00
NITZSCHIA ACICULARIS	7.00
NITZSCHIA APICULATA	14.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA FONTICOLA	54.00
NITZSCHIA FRUSTULUM	256.00
NITZSCHIA HOLSATICA	202.00
NITZSCHIA PALEA	20.00

APPENDIX D-9-2 (Continued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	135.00
CALOTHRIX SPP	90.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	22.00
ACHNANTHES MINUTISSIMA	68.00
NAVICULA CRYPTOCEPHALA	652.00
NAVICULA PELLICULOSA	112.00
NAVICULA VIRIDULA	135.00
NAVICULA SP 1	112.00
NAVICULA SP 2	45.00
CYMBELLA VENTRICOSA	158.00
EPITHEMIA SOREX	68.00
EPITHEMIA ZEBRA	1.00
RHOPALODIA GIBBA	45.00
RHOPALODIA GIBBERULA	112.00
NITZSCHIA CAPITELLATA	90.00
NITZSCHIA FONTICOLA	338.00
NITZSCHIA FRUSTULUM	1665.00
NITZSCHIA HOLSATICA	90.00

APPENDIX D-9-2 (tinued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA LINEARIS	22.00
NITZSCHIA PALEA	68.00

APPENDIX D-9-2 (Continued)

SITE = 19 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	247.00
CALOTHRIX SPP	22.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
ACHNANTHES MINUTISSIMA	68.00
RHOICOSPHENIA CURVATA	22.00
MASTOGLOIA SMITHII	22.00
GYROSIGMA ACUMINATUM	22.00
PLEUROSIGMA DELICATULUM	.40
NAVICULA CRYPTOCEPHALA	1260.00
NAVICULA PELLICULOSA	112.00
NAVICULA TRIPUNCTATA	45.00
NAVICULA SP 1	247.00
NAVICULA SP 2	22.00
AMPHORA OVALIS VAR. PEDICULUS	22.00
CYMBELLA VENTRICOSA	33.00
EPITHEMIA ZEBRA	45.00
RHOPALODIA GIBBA	22.00
RHOPALODIA GIBBERULA	90.00

APPENDIX D-9-2 (continued)

SITE = 19 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA FONTICOLA	1350.00
NITZSCHIA FRUSTULUM	112.00
NITZSCHIA PULSATICA	202.00
NITZSCHIA MICROCEPHALA	45.00
NITZSCHIA PALEA	5.00

APPENDIX D-9-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	30.00
CHLOROPHYTA	
CLADOPHORA SPP	7.20
CHRYSOPHYTA	
SYNEDRA ULNA	3.00
ACHNANTHES MINUTISSIMA	61.00
GYROSIGMA ACUMINATUM	.22
PLEUROSIGMA DELICATULUM	.12
NAVICULA CRYPTOCEPHALA	115.00
NAVICULA VIRIDULA	24.00
NAVICULA SP 1	20.00
CYMBELLA VENTRICOSA	20.00
EPITHEMIA SOREX	3.00
RHOPALODIA GIBBA	1.00
RHOPALODIA GIBBERULA	17.00
HANTZSCHIA AMPHIOXYS	7.00
NITZSCHIA APICULATA	14.00

APPENDIX D-9-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	20.00
NITZSCHIA FONTICOLA	260.00
NITZSCHIA FRUSTULUM	54.00
NITZSCHIA HOLSATICA	20.00
NITZSCHIA PALEA	10.00
SURIRELLA OVATA	3.00

APPENDIX D-9-2 (Continued)

SITE = 20 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	14.00
CALOTHRIX SPP	7.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	40.00
DIATOMA VULGARE	20.00
FRAGILARIA VAUCHERIAE	7.00
SYNEDRA ULNA	40.00
COCCONEIS PLACENTULA	20.00
ACHNANTHES MINUTISSIMA	20.00
RHOICOSPHENIA CURVATA	7.00
GYROSIGMA ACUMINATUM	.12
NAVICULA CRYPTOCEPHALA	135.00
NAVICULA PELLICULOSA	7.00
NAVICULA SALINARUM VAR. INTERMEDIA	40.00
NAVICULA TRIPUNCTATA	14.00
NAVICULA VIRIDULA	54.00
CYMBELLA AFFINIS	7.00
CYMBELLA VENTRICOSA	27.00
GOMPHONEMA INTRICATUM	34.00

APPENDIX D-9-2 (Continued)

SITE = 20 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	74.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA FONTICOLA	34.00
NITZSCHIA FRUSTULUM	47.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA MICROCEPHALA	7.00
NITZSCHIA PALEA	40.00
NITZSCHIA VERMICULARIS	.12

APPENDIX D-9-2 (Continued)

SITE = 20 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	33.00
FRAGILARIA VAUCHERIAE	5.00
SYNEDRA PULCHELLA	.03
ACHNANTHES MINUTISSIMA	173.00
GOMPHONEMA ACUMINATUM	.03
NAVICULA CRYPTOCEPHALA	32.00
NAVICULA GREGARIA	5.00
NAVICULA PELLICULOSA	361.00
NAVICULA SALINARUM VAR. INTERMEDIA	5.00
NAVICULA TRIPUNCTATA	5.00
NAVICULA VAUCHERIAE	5.00
NAVICULA VIRIDULA	28.00
NAVICULA SP. 1	5.00
AMPHORA OVALIS VAR. PEDICULUS	19.00
CYMBELLA AFFINIS	15.00
CYMBELLA VENTRICOSA	24.00
NITZSCHIA CAPITELLATA	15.00
NITZSCHIA DISSIPATA	15.00
NITZSCHIA FONTICOLA	91.00
NITZSCHIA FRUSTULUM	91.00
NITZSCHIA HOLSATICA	[illegible]

SITE = 20 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA MICROCEPHALA	5.00
NITZSCHIA PALEA	15.00
SURIRELLA OVATA	5.00

APPENDIX D-9-2 (Continued)

SITE = 21 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1147.00
CALOTHRIX SPP	58.00
CHLOROPHYTA	
CLADOPHORA SPP	3.00
CHRYSOPHYTA	
CHRYSOPHYTA 1	382.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA ULNA	423.00
ACHNANTHES MINUTISSIMA	45.00
NAVICULA CRYPTOCEPHALA	428.00
NAVICULA PELLICULOSA	45.00
NAVICULA SALINARUM VAR. INTERMEDIA	45.00
NAVICULA TRIPUNCTATA	22.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	112.00
AMPHORA OVALIS VAR. PEDICULUS	562.00
CYMBELLA AFFINIS	45.00

APPENDIX D-9-2 (Continued)

SITE = 21 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA SINUATA	90.00
CYMBELLA VENTRICOSA	45.00
GOMPHONEMA OLIVACEUM	292.00
NITZSCHIA DISSIPATA	90.00
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	135.00
NITZSCHIA HOLSATICA	45.00

APPENDIX D-9-2 (Continued)

SITE = 21 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	95.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	27.00
SYNEDRA ULNA	.12
ACHNANTHES MINUTISSIMA	162.00
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA SP 1	14.00
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA VENTRICOSA	40.00
NITZSCHIA FONTICOLA	594.00
NITZSCHIA FRUSTULUM	135.00
NITZSCHIA HOLSATICA	40.00
NITZSCHIA MICROCEPHALA	14.00
NITZSCHIA PALEA	31.00
NITZSCHIA VERMICULARIS	.12

APPENDIX D-9-2 (continued)

SITE = 21 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	125.00
CALOTHRIX SPP	77.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	29.00
ACHNANTHES MINUTISSIMA	536.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA PELLICULOSA	9.00
CYMBELLA AFFINIS	9.00
CYMBELLA VENTRICOSA	35.00
NITZSCHIA CAPITELLATA	38.00
NITZSCHIA FONTICOLA	212.00
NITZSCHIA FRUSTULUM	29.00
NITZSCHIA HOLSATICA	67.00
NITZSCHIA MICROCEPHALA	9.00
NITZSCHIA PALEA	96.00

APPENDIX D-9-2 (Continued)

SITE = 22 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	29.00
SYNEDRA ULNA	19.00
ACHNANTHES MINUTISSIMA	9.00
GYROSIGMA ACUMINATUM	.15
NAVICULA ARVENSIS	231.00
NAVICULA CRYPTOCEPHALA	48.00
NAVICULA PELLICULOSA	1707.00
NAVICULA VIRIDULA	48.00
NITZSCHIA ACICULARIS	19.00
NITZSCHIA CAPITELLATA	29.00
NITZSCHIA DENTICULA	9.00
NITZSCHIA FONTICOLA	116.00
NITZSCHIA FRUSTULUM	77.00
NITZSCHIA HOLSATICA	96.00
NITZSCHIA PALEA	48.00

APPENDIX D-9-2 ontinued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/SQUARE.MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	57.00
SYNEDRA ULNA	.15
ACHNANTHES MINUTISSIMA	29.00
NAVICULA ARVENSIS	106.00
NAVICULA CRYPTOCEPHALA	19.00
NAVICULA PELLICULOSA	2671.00
NAVICULA VIRIDULA	38.00
NAVICULA SP 1	9.00
NITZSCHIA CAPITELLATA	19.00
NITZSCHIA FONTICOLA	222.00
NITZSCHIA HOLSATICA	125.00

APPENDIX D-9-2 (Continued)

SITE = 22 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	6.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
SYNEDRA ULNA	11.00
ACHNANTHES MINUTISSIMA	6.00
NAVICULA ARVENSIS	17.00
NAVICULA CRYPTOCEPHALA	17.00
NAVICULA PELLICULOSA	101.00
NAVICULA SALINARUM VAR. INTERMEDIA	6.00
NAVICULA VIRIDULA	56.00
NAVICULA SP 1	6.00
AMPHORA OVALIS VAR. PEDICULUS	11.00
CYMBELLA VENTRICOSA	11.00
NITZSCHIA ACICULARIS	6.00
NITZSCHIA APICULATA	6.00
NITZSCHIA FONTICOLA	79.00
NITZSCHIA FRUSTULUM	28.00
NITZSCHIA HOLSATICA	17.00
NITZSCHIA MICROCEPHALA	6.00

APPENDIX D-9-2 [illegible]ontinued)

SITE = 22 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA PALEA	26.00

[illegible] -2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1035.00
PLECTONEMA SPP	68.00
CHRYSOPHYTA	
DIATOMA VULGARE	33.00
FRAGILARIA VAUCHERIAE	33.[illegible]
SYNEDRA ULNA	675.00
COCCONEIS PEDICULUS	22.00
ACHNANTHES MINUTISSIMA	22.00
ACHNANTHES SPP	22.00
NAVICULA ARVENSIS	22.00
NAVICULA CRYPTOCEPHALA	450.00
NAVICULA PELLICULOSA	45.00
NAVICULA SALINARUM VAR. INTERMEDIA	202.00
NAVICULA TRIPUNCTATA	112.00
NAVICULA VAUCHERIAE	112.00
NAVICULA VIRIDULA	270.00
AMPHORA OVALIS VAR. PEDICULUS	112.00
CYMBELLA AFFINIS	68.00
CYMBELLA SINUATA	180.00

APPENDIX D-9-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	135.00
GOMPHONEMA INTRICATUM	68.00
GOMPHONEMA OLIVACEUM	315.00
EPITHEMIA SOREX	22.00
RHOPALODIA GIBBA	22.00
NITZSCHIA CHASEI	45.00
NITZSCHIA DISSIPATA	562.00
NITZSCHIA FRUSTULUM	180.00
NITZSCHIA HOLSATICA	562.00
NITZSCHIA PALEA	90.00

APPENDIX D-9-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1260.00
CHRYSOPHYTA	
FRAGILARIA PINNATA	22.00
SYNEDRA ULNA	270.00
COCCONEIS PEDICULUS	22.00
ACHNANTHES MINUTISSIMA	45.00
RHOICOSPHENIA CURVATA	22.00
NAVICULA CRYPTOCEPHALA	540.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	180.00
NAVICULA TANTULA	22.00
NAVICULA TRIPUNCTATA	202.00
NAVICULA VAUCHERIAE	45.00
NAVICULA VIRIDULA	68.00
AMPHORA OVALIS VAR. *PEDICULUS*	202.00
CYMBELLA CISTULA	.40
CYMBELLA SINUATA	45.00
CYMBELLA VENTRICOSA	45.00
GOMPHONEMA OLIVACEUM	360.00

APPENDIX D-9-2 ([illegible]ntinued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CHASEI	22.00
NITZSCHIA DISSIPATA	270.00
NITZSCHIA FRUSTULUM	180.00
NITZSCHIA HOLSATICA	158.00
NITZSCHIA PALEA	22.00
SURIRELLA OVATA	22.00

APPENDIX D-9-2 (Continued)

SITE = 23 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	4747.00
CHRYSOPHYTA	
SYNEDRA ULNA	135.00
[illegible] [illegible]	.40
NAVICULA CRYPTOCEPHALA	202.00
[illegible] [illegible]	45.00
NAVICULA SALINARUM VAR. INTERMEDIA	45.00
[illegible] [illegible]	45.00
[illegible] [illegible]	135.00
[illegible] [illegible]	45.00
NAVICULA VIRIDULA	225.00
AMPHORA OVALIS VAR. PEDICULUS	1800.00
CYMBELLA AFFINIS	112.00
[illegible] [illegible]	45.00
[illegible] [illegible]	22.00
[illegible] [illegible]	202.00
[illegible] [illegible]	22.00
NITZSCHIA DISSIPATA	180.00
NITZSCHIA FRUSTULUM	225.00

APPENDIX D-9-2 (Continued)

SITE = 23 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	22.00
NITZSCHIA LINEARIS	.20
NITZSCHIA MICROCEPHALA	22.00
NITZSCHIA PALEA	22.00
SURIRELLA OVATA	22.00

APPENDIX D-9-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1395.00
CALOTHRIX SPP	495.00
CHLOROPHYTA	
CLADOPHORA SPP	1.60
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA ULNA	45.00
COCCONEIS PEDICULUS	22.00
ACHNANTHES MINUTISSIMA	22.00
ACHNANTHES SPP	22.00
NAVICULA CRYPTOCEPHALA	1305.00
NAVICULA TRIPUNCTATA	675.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	180.00
CALONEIS VENTRICOSA	22.00
AMPHORA OVALIS VAR. PEDICULUS	1215.00
CYMBELLA AFFINIS	22.00

APPENDIX D-9-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	112.00
GOMPHONEMA INTRICATUM	158.00
GOMPHONEMA OLIVACEUM	135.00
EPITHEMIA SOREX	180.00
NITZSCHIA CAPITELLATA	45.00
NITZSCHIA CHASEI	270.00
NITZSCHIA DISSIPATA	315.00
NITZSCHIA FRUSTULUM	202.00
NITZSCHIA HOLSATICA	225.00

APPENDIX D-9-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1465.00
CALOTHRIX SPP	180.00
CHLOROPHYTA	
CLADOPHORA SPP	10.00
CHRYSOPHYTA	
CHRYSOPHYTA I	630.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA ULNA	68.00
ACHNANTHES MINUTISSIMA	90.00
NAVICULA CRYPTOCEPHALA	1102.00
NAVICULA PELLICULOSA	22.00
NAVICULA TRIPUNCTATA	360.00
NAVICULA VAUCHERIAE	112.00
NAVICULA VIRIDULA	225.00
CALONEIS BACILLUM	45.00
AMPHORA OVALIS VAR. PEDICULUS	2160.00
CYMBELLA AFFINIS	22.00

APPENDIX D-9-2 (continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	270.00
CYMBELLA SINUATA	180.00
CYMBELLA VENTRICOSA	45.00
GOMPHONEMA INTRICATUM	315.00
GOMPHONEMA OLIVACEUM	585.00
EPITHEMIA SOREX	158.00
NITZSCHIA CHASEI	360.00
NITZSCHIA DISSIPATA	159.00
NITZSCHIA FRUSTULUM	428.00
NITZSCHIA HOLSATICA	

APPENDIX D-9-2 (Continued)

SITE = 24 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1845.00
OSCILLATORIA SPP	90.00
PLECTONEMA SPP	45.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
CHRYSOPHYTA I	338.00
FRAGILARIA VAUCHERIAE	45.00
SYNEDRA ULNA	45.00
COCCONEIS PLACENTULA	22.00
ACHNANTHES MINUTISSIMA	135.00
ACHNANTHES SPP	22.00
NAVICULA CRYPTOCEPHALA	270.00
NAVICULA PELLICULOSA	45.00
NAVICULA SALINARUM VAR. INTERMEDIA	22.00
NAVICULA TRIPUNCTATA	90.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	90.00
AMPHORA OVALIS VAR. PEDICULUS	832.00
CYMBELLA SINUATA	158.00

APPENDIX D-9-2 (Continued)

SITE = 24 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	112.00
GOMPHONEMA INTRICATUM	68.00
GOMPHONEMA OLIVACEUM	112.00
NITZSCHIA DISSIPATA	45.00
NITZSCHIA FRUSTULUM	135.00
NITZSCHIA HOLSATICA	45.00

[illegible]-2 (continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	385.00
CALOTHRIX SPP	14.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	2.30
CLADOPHORA SPP	14.00
CHRYSOPHYTA	
CHRYSOPHYTA 1	236.00
DIATOMA VULGARE	27.00
FRAGILARIA VAUCHERIAE	20.00
SYNEDRA ULNA	371.00
COCCONEIS PLACENTULA	7.00
ACHNANTHES MINUTISSIMA	20.00
NAVICULA CRYPTOCEPHALA	94.00
NAVICULA SALINARUM VAR. INTERMEDIA	14.00
NAVICULA TRIPUNCTATA	20.00
NAVICULA VIRIDULA	34.00
NAVICULA SP 2	7.00

APPENDIX D-9-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
AMPHORA OVALIS VAR. PEDICULUS	101.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA OLIVACEUM	20.00
NITZSCHIA DISSIPATA	14.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA PALEA	14.00

APPENDIX D-9-2 (Continued)

SITE = 25 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	121.00
CALOTHRIX SPP	115.00
CHRYSOPHYTA	
CHRYSOPHYTA I	81.00
SYNEDRA ULNA	61.00
NAVICULA CRYPTOCEPHALA	61.00
NAVICULA TRIPUNCTATA	20.00
NAVICULA VAUCHERIAE	7.00
AMPHORA OVALIS VAR. PEDICULUS	223.00
CYMBELLA AFFINIS	14.00
CYMBELLA SINUATA	7.00
GOMPHONEMA OLIVACEUM	7.00
EPITHEMIA SOREX	34.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA CHASEI	14.00
NITZSCHIA DISSIPATA	27.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	20.00

APPENDIX D-9-2 (Continued)

SITE = 25 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	2135.00
CALOTHRIX SPP	201.00
[illegible]PHYTA	
[illegible] SPP	25.00
CHRYSOPHYTA	
CHRYSOPHYTA I	603.00
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	112.00
FRAGILARIA VAUCHERIAE	135.00
SYNEDRA ULNA	783.00
ACHNANTHES MINUTISSIMA	45.00
NAVICULA CRYPTOCEPHALA	495.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	90.00
NAVICULA TRIPUNCTATA	90.00
NAVICULA VIRIDULA	68.00
AMPHORA OVALIS VAR. PEDICULUS	630.00

APPENDIX D-9-2 (Continued)

SITE = 25 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA AFFINIS	22.00
CYMBELLA VENTRICOSA	[illegible]3.00
GOMPHONEMA INTRICATUM	[illegible]
GOMPHONEMA OLIVACEUM	[illegible]
NITZSCHIA CHASEI	22.00
NITZSCHIA DISSIPATA	[illegible]
NITZSCHIA FRUSTULUM	[illegible]
NITZSCHIA HOLSATICA	22.00

APPENDIX D-9-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	2677.00
CALOTHRIX SPP	157.00
CHLOROPHYTA	
CLADOPHORA SPP	3.20
CHRYSOPHYTA	
CHRYSOPHYTA 1	112.00
DIATOMA VULGARE	90.00
FRAGILARIA LEPTOSTAURON	22.00
SYNEDRA ULNA	90.00
ACHNANTHES MINUTISSIMA	68.00
NAVICULA CRYPTOCEPHALA	855.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TANTULA	22.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	90.00
AMPHORA OVALIS VAR. PEDICULUS	1102.00
CYMBELLA AFFINIS	22.00

APPENDIX D-9-2 (Continued)

SITE = 26 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA SINUATA	22.00
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA OLIVACEUM	180.00
EPITHEMIA SOREX	180.00
NITZSCHIA DISSIPATA	68.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA HOLSATICA	135.00

APPENDIX D-9-2 (continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1468.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
CHRYSOPHYTA I	1620.00
DIATOMA VULGARE	65.00
FRAGILARIA VAUCHERIAE	17.00
SYNEDRA ULNA	472.00
COCCONEIS PLACENTULA	118.00
ACHNANTHES MINUTISSIMA	236.00
NAVICULA CRYPTOCEPHALA	827.00
NAVICULA SALINARUM VAR. INTERMEDIA	51.00
NAVICULA TANTULA	101.00
NAVICULA TRIPUNCTATA	607.00
NAVICULA VIRIDULA	55.00
AMPHORA OVALIS VAR. PEDICULUS	3797.00
CYMBELLA AFFINIS	68.00
CYMBELLA SINUATA	135.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA OLIVACEUM	135.00

APPENDIX D-9-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA SOREX	136.00
RHOPALODIA GIBBA	.15
NITZSCHIA CHASEI	118.00
NITZSCHIA DISSIPATA	203.00
NITZSCHIA FRUSTULUM	388.00
NITZSCHIA PULSATICA	152.00

APPENDIX D-9-2 (Continued)

SITE = 26 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1530.00
CALOTHRIX SPP	112.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	22.00
FRAGILARIA PINNATA	45.00
FRAGILARIA VAUCHERIAE	45.00
SYNEDRA ULNA	202.00
ACHNANTHES LANCEOLATA	22.00
ACHNANTHES MINUTISSIMA	45.00
NAVICULA CRYPTOCEPHALA	540.00
NAVICULA PELLICULOSA	45.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TANTULA	180.00
NAVICULA TRIPUNCTATA	247.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	68.00
AMPHORA OVALIS VAR. PEDICULUS	2115.00
CYMBELLA AFFINIS	2092.00

APPENDIX D-9-2 (Continued)

SITE = 26 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	158.00
EPITHEMIA SOREX	112.00
NITZSCHIA CHASEI	225.00
NITZSCHIA DISSIPATA	180.00
NITZSCHIA FONTICOLA	22.00
NITZSCHIA FRUSTULUM	450.00
NITZSCHIA HOLSATICA	350.00

APPENDIX D-9-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	878.00
CHLOROPHYTA	
CLADOPHORA SPP	2.40
CHRYSOPHYTA	
CHRYSOPHYTA I	180.00
DIATOMA VULGARE	292.00
FRAGILARIA VAUCHERIAE	158.00
SYNEDRA ULNA	562.00
COCCONEIS PLACENTULA	22.00
ACHNANTHES MINUTISSIMA	22.00
RHOICOSPHENIA CURVATA	22.00
PLEUROSIGMA DELICATULUM	.20
NAVICULA CRYPTOCEPHALA	720.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	45.00
NAVICULA TRIPUNCTATA	270.00
NAVICULA VIRIDULA	225.00
AMPHORA OVALIS VAR. *PEDICULUS*	158.00

APPENDIX D-9-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA AFFINIS	90.00
CYMBELLA SINUATA	22.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA OLIVACEUM	315.00
[illegible]	135.00
NITZSCHIA DISSIPATA	215.00
NITZSCHIA HOLSATICA	595.00

APPENDIX D-9-2 (continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	3745.00
CALOTHRIX SPP	22.00
CHRYSOPHYTA	
CHRYSOPHYTA I	180.00
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	405.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA AMPHICEPHALA	22.00
SYNEDRA ULNA	585.00
ACHNANTHES MINUTISSIMA	22.00
RHOICOSPHENIA CURVATA	90.00
NAVICULA CRYPTOCEPHALA	1012.00
NAVICULA SALINARUM VAR. INTERMEDIA	202.00
NAVICULA TRIPUNCTATA	247.00
NAVICULA VAUCHERIAE	45.00
NAVICULA VIRIDULA	90.00
AMPHORA OVALIS VAR. PEDICULUS	315.00
CYMBELLA AFFINIS	45.00
CYMBELLA SINUATA	68.00

APPENDIX D-9-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA –	
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	247.00
EPITHEMIA SOREX	66.00
RHOPALODIA GIBBA	.20
NITZSCHIA DISSIPATA	360.00
NITZSCHIA FRUSTULUM	382.00
NITZSCHIA HOLSATICA	270.00
CYMATOPLEURA SOLEA	.20

APPENDIX D-9-2 (Continued)

SITE = 27 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	2002.00
LYNGBYA SPP	68.00
CALOTHRIX SPP	
CHLOROPHYTA	26.40
CLADOPHORA SPP	
CHRYSOPHYTA	338.00
CHRYSOPHYTA I	112.00
DIATOMA VULGARE	68.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA AMPHICEPHALA	360.00
SYNEDRA ULNA	22.00
COCCONEIS PLACENTULA	45.00
ACHNANTHES MINUTISSIMA	990.00
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	135.00
NAVICULA TRIPUNCTATA	22.00
NAVICULA VAUCHERIAE	

APPENDIX D-9-2 (Continued)

SITE = 27 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NAVICULA VIRIDULA	45.00
AMPHORA OVALIS VAR. PEDICULUS	765.00
AMPHORA SP 1	22.00
CYMBELLA AFFINIS	22.00
CYMBELLA SINUATA	45.00
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	90.00
EPITHEMIA SOREX	112.00
NITZSCHIA ACICULARIS	22.00
NITZSCHIA CHASEI	292.00
NITZSCHIA DISSIPATA	112.00
NITZSCHIA FRUSTULUM	90.00
NITZSCHIA HOLSATICA	202.00
NITZSCHIA PALEA	22.00
SURIRELLA OVATA	45.00

APPENDIX D-9 (Continued)

SITE = 28 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	3071.00
CHRYSOPHYTA	
CHRYSOPHYTA I	202.00
DIATOMA VULGARE	34.00
SYNEDRA ULNA	337.00
NAVICULA CRYPTOCEPHALA	506.00
NAVICULA PELLICULOSA	34.00
NAVICULA SALINARUM VAR. INTERMEDIA	202.00
NAVICULA TRIPUNCTATA	169.00
NAVICULA AUCHERIAE	34.00
NAVICULA VIRIDULA	135.00
AMPHORA OVALIS VAR. PEDICULUS	1282.00
CYMBELLA AFFINIS	34.00
CYMBELLA SINUATA	135.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA INTRICATUM	34.00
GOMPHONEMA OLIVACEUM	405.00
GOMPHONEMA VENTRICOSUM	34.00
NITZSCHIA ACICULARIS	34.00

APPENDIX D-9-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	371.00
NITZSCHIA FRUSTULUM	135.00
NITZSCHIA HOLSATICA	68.00
SURIRELLA OVALIS	.30

APPENDIX D-9-2 (Continued)

SITE = 28 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	843.00
CHRYSOPHYTA	
DIATOMA VULGARE	34.00
FRAGILARIA CONSTRUENS	135.00
FRAGILARIA LEPTOSTAURON	135.00
FRAGILARIA PINNATA	34.00
FRAGILARIA VAUCHERIAE	34.00
SYNEDRA ULNA	135.00
ACHNANTHES MINUTISSIMA	68.00
NAVICULA CRYPTOCEPHALA	438.00
NAVICULA SALINARUM VAR. INTERMEDIA	270.00
NAVICULA TRIPUNCTATA	169.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	304.00
AMPHORA OVALIS VAR. PEDICULUS	742.00
CYMBELLA AFFINIS	34.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA OLIVACEUM	270.00
EPITHEMIA SOREX	34.00

APPENDIX D-9-2 (Continued)

SITE = 28 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CAPITELLATA	135.00
NITZSCHIA DISSIPATA	438.00
NITZSCHIA FONTICOLA	169.00
NITZSCHIA FRUSTULUM	34.00
NITZSCHIA HOLSATICA	169.00
NITZSCHIA PALEA	34.00

APPENDIX D-9-2 Continued

SITE = 28 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	697.00
CHRYSOPHYTA	
DIATOMA VULGARE	45.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA ULNA	22.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA CRYPTOCEPHALA	513.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TANTULA	225.00
NAVICULA TRIPUNCTATA	160.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	135.00
AMPHORA OVALIS VAR. PEDICULUS	1327.00
CYMBELLA SINUATA	22.00
GOMPHONEMA CONSTRICTUM	68.00
GOMPHONEMA OLIVACEUM	135.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA DISSIPATA	225.00

APPENDIX D-9-2 (Continued)

SITE = 28 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA HOLSATICA	247.00
SURIRELLA OVALIS	.20

APPENDIX D-9-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	5085.00
CALOTHRIX SPP	90.00
CHLOROPHYTA	
CLADOPHORA SPP	4.00
CHRYSOPHYTA	
CHRYSOPHYTA I	68.00
DIATOMA VULGARE	54.00
FRAGILARIA VAUCHERIAE	160.00
SYNEDRA AMPHICEPHALA	22.00
SYNEDRA ULNA	630.00
ACHNANTHES LANCEOLATA	22.00
ACHNANTHES MINUTISSIMA	68.00
NAVICULA CRYPTOCEPHALA	720.00
NAVICULA SALINARUM VAR. INTERMEDIA	90.00
NAVICULA TRIPUNCTATA	45.00
NAVICULA VAUCHERIAE	135.00
NAVICULA VIRIDULA	45.00

APPENDIX D-9-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
AMPHORA OVALIS VAR. PEDICULUS	585.00
CYMBELLA AFFINIS	22.00
CYMBELLA SINUATA	135.00
CYMBELLA VENTRICOSA	135.00
GOMPHONEMA INTRICATUM	202.00
GOMPHONEMA OLIVACEUM	630.00
EPITHEMIA SOREX	90.00
NITZSCHIA DISSIPATA	513.00
NITZSCHIA FRUSTULUM	112.00
NITZSCHIA GRACILIS	22.00
NITZSCHIA HOLSATICA	270.00
NITZSCHIA PALEA	360.00
SURIRELLA OVATA	22.00

APPENDIX D-9-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	6952.00
CALOTHRIX SPP	45.00
CHRYSOPHYTA	
DIATOMA VULGARE	90.00
FRAGILARIA VAUCHERIAE	90.00
SYNEDRA AMPHICEPHALA	22.00
SYNEDRA ULNA	540.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA CRYPTOCEPHALA	338.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	45.00
NAVICULA TANTULA	22.00
NAVICULA TRIPUNCTATA	22.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	180.00
AMPHORA OVALIS VAR. *PEDICULUS*	1935.00
CYMBELLA AFFINIS	22.00
CYMBELLA SINUATA	225.00
CYMBELLA VENTRICOSA	68.00

APPENDIX D-9-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	180.00
EPITHEMIA SOREX	45.00
RHOPALODIA GIBBERULA	22.00
NITZSCHIA DISSIPATA	225.00
NITZSCHIA FRUSTULUM	158.00
NITZSCHIA HOLSATICA	202.00
NITZSCHIA PALEA	22.00

APPENDIX D-9-2 (continued)

SITE = 29 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	3442.00
CALOTHRIX SPP	22.00
CHRYSOPHYTA	
CHRYSOPHYTA I	292.00
DIATOMA VULGARE	45.00
FRAGILARIA VAUCHERIAE	158.00
SYNEDRA ULNA	270.00
ACHNANTHES MINUTISSIMA	315.00
NAVICULA CRYPTOCEPHALA	135.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	45.00
AMPHORA OVALIS VAR. PEDICULUS	3868.00
CYMBELLA AFFINIS	45.00
CYMBELLA SINUATA	562.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	450.00

APPENDIX D-9-2 (Continued)

SITE = 29 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA SOREX	247.00
NITZSCHIA DISSIPATA	247.00
NITZSCHIA FRUSTULUM	90.00
NITZSCHIA HOLSATICA	247.00
NITZSCHIA MICROCEPHALA	22.00
NITZSCHIA PALEA	45.00
SURIRELLA OVATA	22.00

APPENDIX D-9-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	4028.00
CALOTHRIX SPP	495.00
CHLOROPHYTA	
CLADOPHORA SPP	3.00
CHRYSOPHYTA	
CHRYSOPHYTA I	585.00
CYCLOTELLA MENEGHINIANA	22.00
SYNEDRA ULNA	202.00
NAVICULA CRYPTOCEPHALA	405.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	45.00
CALONEIS BACILLUM	22.00
AMPHORA OVALIS VAR. PEDICULUS	2898.00
CYMBELLA AFFINIS	68.00
CYMBELLA SINUATA	22.00

APPENDIX D-9-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	426.00
EPITHEMIA SOREX	68.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA DISSIPATA	90.00
NITZSCHIA FONTICOLA	45.00
NITZSCHIA FRUSTULUM	158.00
NITZSCHIA HOLSATICA	45.00

APPENDIX D-9-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1327.00
CALOTHRIX SPP	338.00
CHLOROPHYTA	
CLADOPHORA SPP	19.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	68.00
SYNEDRA TENERA	22.00
SYNEDRA ULNA	247.00
ACHNANTHES LANCEOLATA	22.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA CRYPTOCEPHALA	945.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	135.00
NAVICULA TANTULA	22.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VAUCHERIAE	22.00

APPENDIX D-9-2 (Continued)

SITE = 30 REP. = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NAVICULA VIRIDULA	22.00
AMPHORA OVALIS VAR. PEDICULUS	922.00
CYMBELLA AFFINIS	22.00
CYMBELLA SINUATA	45.00
GOMPHONEMA OLIVACEUM	112.00
GOMPHONEMA VENTRICOSUM	45.00
EPITHEMIA SOREX	158.00
NITZSCHIA CAPITELLATA	22.00
NITZSCHIA CHASEI	90.00
NITZSCHIA DISSIPATA	292.00
NITZSCHIA FRUSTULUM	45.00
NITZSCHIA HOLSATICA	225.00

APPENDIX D-9-2 (continued)

SITE = 30 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	3600.00
CALOTHRIX SPP	450.00
CHLOROPHYTA	
CLADOPHORA SPP	135.00
CHRYSOPHYTA	
CHRYSOPHYTA I	608.00
FRAGILARIA PINNATA	90.00
FRAGILARIA VAUCHERIAE	90.00
SYNEDRA ULNA	158.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA CRYPTOCEPHALA	1350.00
NAVICULA PELLICULOSA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	90.00
NAVICULA TRIPUNCTATA	180.00
NAVICULA VIRIDULA	90.00
AMPHORA OVALIS VAR. PEDICULUS	1718.00
CYMBELLA SINUATA	68.00

APPENDIX D-9-2 (Continued)

SITE = 30 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	90.00
CYMBELLA VENTRICOSA	428.00
GOMPHONEMA OLIVACEUM	158.00
EPITHEMIA SOREX	68.00
NITZSCHIA CHASEI	360.00
NITZSCHIA DISSIPATA	112.00
NITZSCHIA FRUSTULUM	90.00
NITZSCHIA HOLSATICA	

APPENDIX D-9-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	2494.00
CALOTHRIX SPP	321.00
CHRYSOPHYTA	
DIATOMA VULGARE	51.00
FRAGILARIA CONSTRUENS	34.00
FRAGILARIA VAUCHERIAE	34.00
SYNEDRA ULNA	304.00
NAVICULA CRYPTOCEPHALA	557.00
NAVICULA PELLICULOSA	17.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TANTULA	34.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VAUCHERIAE	152.00
NAVICULA VIRIDULA	84.00
AMPHORA OVALIS VAR. PEDICULUS	641.00
CYMBELLA AFFINIS	51.00
CYMBELLA SINUATA	101.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA INTRICATUM	17.00

APPENDIX D-9-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	203.00
EPITHEMIA SOREX	17.00
NITZSCHIA DISSIPATA	339.00
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	17.00
NITZSCHIA HOLSATICA	169.00
SURIRELLA OVATA	34.00

APPENDIX D-9-2 (Continued)

SITE = 31 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	6997.00
CALOTHRIX SPP	562.00
CHLOROPHYTA	
CLADOPHORA SPP	513.00
CHRYSOPHYTA	
DIATOMA VULGARE	112.00
FRAGILARIA PINNATA	68.00
FRAGILARIA VAUCHERIAE	135.00
SYNEDRA ULNA	810.00
NAVICULA CRYPTOCEPHALA	900.00
NAVICULA SALINARUM VAR. INTERMEDIA	112.00
NAVICULA TRIPUNCTATA	202.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	135.00
AMPHORA OVALIS VAR. PEDICULUS	382.00
CYMBELLA SINUATA	22.00
CYMBELLA VENTRICOSA	68.00

APPENDIX D-9-2 (Continued)

SITE = 31 REP = 2

TAXA	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	1192.00
EPITHEMIA SOREX	90.00
NITZSCHIA CHASEI	45.00
NITZSCHIA DISSIPATA	180.00
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	22.00
NITZSCHIA HOLSATICA	180.00

APPENDIX D-9-2 (Continued)

SITE = 31 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1620.00
CALOTHRIX SPP	22.00
CHLOROPHYTA	
CLADOPHORA SPP	68.00
CHRYSOPHYTA	
DIATOMA VULGARE	90.00
FRAGILARIA PINNATA	45.00
FRAGILARIA VAUCHERIAE	45.00
SYNEDRA ULNA	630.00
ACHNANTHES MINUTISSIMA	22.00
NAVICULA CRYPTOCEPHALA	428.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	112.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VIRIDULA	45.00
AMPHORA OVALIS VAR. *PEDICULUS*	225.00
CYMBELLA VENTRICOSA	158.00

APPENDIX D-9-2 (Continued)

SITE = 31 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	135.00
GOMPHONEMA OLIVACEUM	540.00
EPITHEMIA SOREX	45.00
NITZSCHIA DISSIPATA	45.00
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	90.00
NITZSCHIA HOLSATICA	90.00

APPENDIX D-9-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1638.00
CHRYSOPHYTA	
CHRYSOPHYTA I	405.00
THALASSIOSIRA FLUVIATILIS	34.00
DIATOMA VULGARE	236.00
FRAGILARIA PINNATA	34.00
FRAGILARIA VAUCHERIAE	169.00
SYNEDRA ULNA	1552.00
ACHNANTHES LANCEOLATA	34.00
ACHNANTHES MINUTISSIMA	135.00
NAVICULA CRYPTOCEPHALA	641.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TRIPUNCTATA	270.00
NAVICULA VIRIDULA	304.00
CALONEIS BACILLUM	34.00
AMPHORA OVALIS VAR. PEDICULUS	878.00
CYMBELLA AFFINIS	34.00
CYMBELLA SINUATA	68.00
CYMBELLA VENTRICOSA	236.00

APPENDIX D-9-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	68.00
GOMPHONEMA OLIVACEUM	304.00
EPITHEMIA SOREX	34.00
RHOPALODIA GIBBA	34.00
NITZSCHIA CAPITELLATA	68.00
NITZSCHIA CHASEI	101.00
NITZSCHIA DISSIPATA	405.00
NITZSCHIA FRUSTULUM	506.00
NITZSCHIA HOLSATICA	438.00
SURIRELLA OVATA	34.00

APPENDIX D-9-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	4556.00
CALOTHRIX SPP	202.00
CHRYSOPHYTA	
CHRYSOPHYTA I	236.00
DIATOMA VULGARE	337.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA ULNA	1148.00
ACHNANTHES MINUTISSIMA	169.00
NAVICULA CRYPTOCEPHALA	708.00
NAVICULA SALINARUM VAR. INTERMEDIA	236.00
NAVICULA TRIPUNCTATA	236.00
NAVICULA VAUCHERIAE	34.00
NAVICULA VIRIDULA	405.00
AMPHORA OVALIS VAR. PEDICULUS	270.00
CYMBELLA SINUATA	68.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA OLIVACEUM	371.00
EPITHEMIA SOREX	135.00
RHOPALODIA GIBBA	.30

APPENDIX D-9-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CHASEI	68.00
NITZSCHIA DISSIPATA	878.00
NITZSCHIA FRUSTULUM	270.00
NITZSCHIA HOLSATICA	371.00
NITZSCHIA LINEARIS	68.00
NITZSCHIA PALEA	34.00
SURIRELLA OVATA	34.00

APPENDIX D-9-2 (continued)

SITE = 32 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	2278.00
CALOTHRIX SPP	169.00
CHLOROPHYTA	
CLADOPHORA SPP	1.00
CHRYSOPHYTA	
CHRYSOPHYTA I	945.00
THALASSIOSIRA FLUVIATILIS	34.00
DIATOMA VULGARE	304.00
FRAGILARIA PINNATA	68.00
FRAGILARIA VAUCHERIAE	135.00
SYNEDRA ULNA	2362.00
ACHNANTHES MINUTISSIMA	270.00
NAVICULA CRYPTOCEPHALA	1012.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. INTERMEDIA	202.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	608.00

APPENDIX D-9-2 (Continued)

SITE = 32 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NAVICULA VAUCHERIAE	34.00
NAVICULA VIRIDULA	169.00
CALONEIS BACILLUM	34.00
AMPHORA OVALIS VAR. PEDICULUS	540.00
CYMBELLA AFFINIS	68.00
CYMBELLA SINUATA	202.00
CYMBELLA VENTRICOSA	101.00
GOMPHONEMA INTRICATUM	135.00
GOMPHONEMA OLIVACEUM	236.00
EPITHEMIA SOREX	101.00
NITZSCHIA ACICULARIS	34.00
NITZSCHIA DISSIPATA	978.00
NITZSCHIA FRUSTULUM	236.00
NITZSCHIA HOLSATICA	608.00
SURIRELLA OVATA	34.00

APPENDIX D-9-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	506.00
CALOTHRIX SPP	22.00
CHRYSOPHYTA	
DIATOMA VULGARE	22.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA ULNA	270.00
NAVICULA CRYPTOCEPHALA	360.00
NAVICULA SALINARUM VAR. INTERMEDIA	79.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VAUCHERIAE	67.00
NAVICULA VIRIDULA	67.00
AMPHORA OVALIS VAR. PEDICULUS	945.00
CYMBELLA SINUATA	191.00
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA OLIVACEUM	540.00
EPITHEMIA SOREX	34.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	236.00
NITZSCHIA FONTICULA	34.00

APPENDIX D-9-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	180.00

APPENDIX D-9-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	68.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA ULNA	186.00
COCCONEIS PLACENTULA	17.00
ACHNANTHES MINUTISSIMA	84.00
NAVICULA CRYPTOCEPHALA	506.00
NAVICULA SALINARUM VAR. INTERMEDIA	101.00
NAVICULA TANTULA	17.00
NAVICULA TRIPUNCTATA	84.00
NAVICULA VAUCHERIAE	51.00
NAVICULA VIRIDULA	34.00
CALONEIS BACILLUM	17.00
AMPHORA OVALIS VAR. PEDICULUS	827.00
CYMBELLA AFFINIS	34.00
CYMBELLA SINUATA	152.00
CYMBELLA VENTRICOSA	51.00
GOMPHONEMA INTRICATUM	68.00
GOMPHONEMA OLIVACEUM	354.00

APPENDIX D-9-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	624.00
NITZSCHIA FONTICOLA	34.00
NITZSCHIA FRUSTULUM	118.00
NITZSCHIA HOLSATICA	405.00
SURIRELLA OVATA	17.00

APPENDIX D-9-2 (ntinued)

PROJECT

SITE = 33 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	3.00
CHRYSOPHYTA	
DIATOMA VULGARE	7.00
FRAGILARIA PINNATA	10.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	22.00
ACHNANTHES MINUTISSIMA	6.00
NAVICULA CRYPTOCEPHALA	67.00
NAVICULA PELLICULOSA	3.00
NAVICULA TRIPUNCTATA	19.00
NAVICULA VAUCHERIAE	6.00
NAVICULA VIRIDULA	13.00
CALONEIS AMPHISBAENA	.08
AMPHORA OVALIS VAR. PEDICULUS	77.00
AMPHORA SP 1	3.00
CYMBELLA SINUATA	6.00
GOMPHONEMA INTRICATUM	6.00
GOMPHONEMA OLIVACEUM	71.00
EPITHEMIA SOREX	3.00

APPENDIX D-9-2 (Continued)

SITE = 33 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	16.00
NITZSCHIA FRUSTULUM	6.00
NITZSCHIA HOLSATICA	6.00
NITZSCHIA LINEARIS	3.00

APPENDIX D-9-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1732.00
CALOTHRIX SPP	270.00
CHLOROPHYTA	
CLADOPHORA SPP	202.00
CHRYSOPHYTA	
DIATOMA VULGARE	22.00
FRAGILARIA VAUCHERIAE	90.00
SYNEDRA ULNA	155.00
ACHNANTHES MINUTISSIMA	45.00
NAVICULA CRYPTOCEPHALA	675.00
NAVICULA [illegible] VAR. [illegible]	90.00
NAVICULA TRIPUNCTATA	90.00
[illegible]	[illegible]
[illegible]	360.00
[illegible]	22.00
CYMBELLA [illegible]	90.00
[illegible]	[illegible]

APPENDIX D-9-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	202.00
EPITHEMIA SOREX	333.00
NITZSCHIA ANGUSTATA	22.00
NITZSCHIA DISSIPATA	360.00
NITZSCHIA FRUSTULUM	22.00
NITZSCHIA HOLSATICA	66.00
NITZSCHIA PALEA	22.00

APPENDIX D-9-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	223.00
CALOTHRIX SPP	14.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	1.00
CLADOPHORA SPP	14.00
CHRYSOPHYTA	
DIATOMA VULGARE	7.00
FRAGILARIA VAUCHERIAE	27.00
SYNEDRA ULNA	216.00
COCCONEIS PLACENTULA	7.00
NAVICULA CRYPTOCEPHALA	135.00
NAVICULA PELLICULOSA	14.00
NAVICULA SALINARUM VAR. INTERMEDIA	54.00
NAVICULA TRIPUNCTATA	7.00
NAVICULA VAUCHERIAE	7.00
NAVICULA VIRIDULA	27.00
CYMBELLA VENTRICOSA	7.00

APPENDIX D-9-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	20.00
GOMPHONEMA OLIVACEUM	47.00
AMPHIPRORA ALATA	7.00
EPITHEMIA SOREX	7.00
NITZSCHIA DISSIPATA	27.00
NITZSCHIA FONTICOLA	14.00
NITZSCHIA HOLSATICA	162.00
NITZSCHIA LINEARIS	7.00

APPENDIX D-9-2 (Continued)

SITE = 34 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1654.00
CALOTHRIX SPP	152.00
CHRYSOPHYTA	
DIATOMA VULGARE	17.00
SYNEDRA ULNA	152.00
ACHNANTHES MINUTISSIMA	34.00
NAVICULA ARVENSIS	34.00
NAVICULA CRYPTOCEPHALA	456.00
NAVICULA PELLICULOSA	17.00
NAVICULA SALINARUM VAR. INTERMEDIA	118.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	34.00
NAVICULA VAUCHERIAE	135.00
NAVICULA VIRIDULA	219.00
CALONEIS BACILLUM	17.00
AMPHORA OVALIS VAR. PEDICULUS	540.00
CYMBELLA AFFINIS	17.00
CYMBELLA SINUATA	101.00
CYMBELLA VENTRICOSA	152.00

APPENDIX D-9-2 (Continued)

SITE = 34 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	51.00
GOMPHONEMA OLIVACEUM	51.00
EPITHEMIA SOREX	34.00
NITZSCHIA CAPITELLATA	17.00
NITZSCHIA DISSIPATA	271.00
NITZSCHIA FONTICOLA	34.00
NITZSCHIA FRUSTULUM	34.00
NITZSCHIA HOLSATICA	219.00
SURIRELLA OVATA	34.00

APPENDIX D-9-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	4590.00
CALOTHRIX SPP	202.00
CHRYSOPHYTA	
CHRYSOPHYTA I	1080.00
DIATOMA VULGARE	405.00
FRAGILARIA VAUCHERIAE	202.00
SYNEDRA ULNA	1181.00
ACHNANTHES LANCEOLATA	34.00
ACHNANTHES MINUTISSIMA	66.00
NAVICULA CRYPTOCEPHALA	1249.00
NAVICULA SALINARUM VAR. INTERMEDIA	337.00
NAVICULA TANTULA	304.00
NAVICULA TRIPUNCTATA	202.00
NAVICULA VIRIDULA	202.00
AMPHORA OVALIS VAR. PEDICULUS	1586.00
CYMBELLA AFFINIS	101.00
CYMBELLA PROSTRATA	34.00
CYMBELLA SINUATA	34.00
CYMBELLA VENTRICOSA	169.00

APPENDIX D-9-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	34.00
GOMPHONEMA OLIVACEUM	1418.00
EPITHEMIA SOREX	304.00
NITZSCHIA CHASEI	34.00
NITZSCHIA DISSIPATA	1181.00
NITZSCHIA FONTICOLA	135.00
NITZSCHIA FRUSTULUM	810.00
NITZSCHIA HOLSATICA	1080.00

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APPENDIX D-9-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	832.00
CALOTHRIX SPP	45.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	180.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA ULNA	540.00
COCCONEIS PLACENTULA	45.00
ACHNANTHES MINUTISSIMA	90.00
NAVICULA CRYPTOCEPHALA	788.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. INTERMEDIA	90.00
NAVICULA TRIPUNCTATA	270.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	135.00
CALONEIS BACILLUM	22.00
AMPHORA OVALIS VAR. PEDICULUS	1305.00
CYMBELLA AFFINIS	112.00
CYMBELLA SINUATA	338.00

APPENDIX D-9-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA VENTRICOSA	135.00
GOMPHONEMA INTRICATUM	112.00
GOMPHONEMA OLIVACEUM	68.00
EPITHEMIA SOREX	158.00
NITZSCHIA CHASEI	22.00
NITZSCHIA DISSIPATA	630.00
NITZSCHIA FONTICOLA	382.00
NITZSCHIA FRUSTULUM	158.00
NITZSCHIA HOLSATICA	513.00
NITZSCHIA PALEA	22.00
CYMATOPLEURA SOLEA	.20

APPENDIX D-9-2 (Continued)

SITE = 35 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	5535.00
CALOTHRIX SPP	675.00
CHRYSOPHYTA	
DIATOMA VULGARE	337.00
FRAGILARIA VAUCHERIAE	435.00
SYNEDRA ULNA	506.00
COCCONEIS PLACENTULA	34.00
ACHNANTHES MINUTISSIMA	101.00
NAVICULA CRYPTOCEPHALA	1552.00
NAVICULA SALINARUM VAR. INTERMEDIA	101.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	775.00
NAVICULA VIRIDULA	405.00
AMPHORA OVALIS VAR. PEDICULUS	1356.00
CYMBELLA AFFINIS	68.00
CYMBELLA VENTRICOSA	101.00
GOMPHONEMA OLIVACEUM	438.00
EPITHEMIA SOREX	540.00
NITZSCHIA CHASEI	304.00

APPENDIX D-9-2 (Continued)
SITE = 35 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	1316.00
NITZSCHIA FONTICOLA	34.00
NITZSCHIA FRUSTULUM	202.00
NITZSCHIA HOLSATICA	438.00
NITZSCHIA PALEA	34.00

APPENDIX D-9-2 (Continued)

SITE = 35 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	1316.00
NITZSCHIA FONTICOLA	34.00
NITZSCHIA FRUSTULUM	202.00
NITZSCHIA HOLSATICA	435.00
NITZSCHIA PALEA	34.00

RBOSP PROGRESS REPORT

APPENDIX D-9 -3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-9-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975.[1]

Station Replicate	Dry Weight (g)	Organic Weight (g)
1-A	0.1611	0.0283
1-B	0.1874	0.0223
1-C	0.3016	0.0305
2-A	0.1205	0.0230
2-B	0.0873	0.0190
2-C	0.1056	0.0252
3-A	0.1585	0.0293
3-B	0.3155	0.0337
3-C	0.1201	0.0191
4-A	0.2032	0.0638
4-B	0.6937	0.0893
4-C	0.2753	0.0384
5-A	0.2674	0.0359
5-B	1.2477	0.1638
5-C	0.5492	0.0754
7-A	0.2452	0.0188
7-B	0.4301	0.0272
7-C	0.5448	0.0747
8-A	0.2099	0.0220
8-B	0.2224	0.0319
8-C	0.1487	0.0190
9-A	0.2337	0.0277
9-B	0.3223	0.0274
9-C	0.2120	0.0198
13-A	0.4087	0.0425
13-B	0.1687	0.0193
13-C	0.2069	0.0204
14-A	2.1032	0.0906
14-B	0.5185	0.0522
14-C	1.3970	0.0690
15-A	0.5748	0.0669
15-B	0.5241	0.0695
15-C	0.8087	0.0831

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[1] Stations 6, 10-12 and 16 were dry at the time of sampling.

APPENDIX D-9-3 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
17-A	0.3455	0.0402
17-B	0.2845	0.0343
17-C	0.2387	0.0308
18-A	0.3625	0.0314
18-B	0.2470	0.0196
18-C	0.5437	0.0438
19-A	2.7469	0.7139
19-B	3.2614	0.9314
19-C	6.0620	0.8867
20-A	0.5268	0.0652
20-B	0.2242	0.0247
20-C	0.2411	0.0326
21-A	0.1982	0.0276
21-B	0.2799	0.0332
21-C	0.4449	0.0758
22-A	0.2138	0.0250
22-B	0.2146	0.0228
22-C	0.1597	0.0248
23-A	2.8582	0.0768
23-B	2.5877	0.0886
23-C	2.2013	0.0772
24-A	2.9272	0.2246
24-B	2.7817	0.2049
24-C	7.2800	0.5099
25-A	2.8406	0.1933
25-B	0.1435	0.0214
25-C	1.6106	0.1800
26-A	5.4050	0.1754
26-B	1.1714	0.1048
26-C	1.4026	0.1405
27-A	7.6387	0.4032
27-B	5.6473	0.4113
27-C	2.7822	0.7141
28-A	4.9123	0.1326
28-B	5.0793	0.1124
28-C	3.1848	0.1031
29-A	0.4890	0.647
29-B	0.5151	0.544
29-C	1.0934	0.1189
30-A	1.3806	0.0583
30-B	0.8529	0.0834
30-C	4.4702	0.3364

APPENDIX D- 9-3 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
31-A	0.6943	0.0999
31-B	1.3261	0.0598
31-C	1.6792	0.0906
32-A	3.2790	0.1473
32-B	3.0980	0.1886
32-C	3.3581	0.0846
33-A	1.6855	0.1208
33-B	0.3990	0.0316
33-C	0.1737	0.0177
34-A	0.8087	0.0884
34-B	0.9816	0.0841
34-C	0.2648	0.0265
35-A	2.6367	0.1542
35-B	1.4207	0.1112
35-C	2.9935	0.1623

RBOSP PROGRESS REPORT

APPENDIX D-9-4

CHLOROPHYLL A OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

2.4.4.515

2.4.4.513

RBOSP PROGRESS REPORT

APPENDIX D-9-4

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975.[1] (Data are expressed as mg Chlorophyll a per cm^2.)

Station	Replicate		
	A	B	C
1	.0004	.0006	.0003
2	.0006	.0005	.0006
3	.0004	.0011	.0004
4	.0013	.0017	.0025
5	.0010	.0003	.0006
7	.0002	.0004	.0000
8	.0003	.0020	.0010
9	.0002	.0005	.0004
13	.0000	.0003	.0005
14	.0073	.0089	.0030
17	.0007	.0003	.0004
18	.0001	.0002	.0001
19	.0071	.0071	.0062
20	.0003	.0001	.0000
21	.0009	.0003	.0004
22	.0005	.0003	.0004
23	.0037	.0079	.0023
24	.0049	.0060	.0052
25	.0023	.0013	.0059
26	.0090	.0096	.0079
27	.0108	.0096	.0033
28	.0021	.0031	.0045
29	.0043	.0043	.0076
30	.0028	.0021	.0012
31	.0045	.0025	.0090
32	.0019	.0078	.0022
33	.0037	.0026	.0031
34	.0018	.0073	.0021
35	.0053	.0028	.0051

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[1] Stations 6, 10-12 and 16 were dry at the time of sampling.

APPENDIX D-9-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-9-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

CYANOPHYTA

Lyngbya spp.
Oscillatoria spp.

CHLOROPHYTA

Cladophora spp.

CHRYSOPHYTA

Cyclotella meneghiniana
Diatoma vulgare
Fragilaria leptostauron
Fragilaria pinnata
Fragilaria vaucheriae
Synedra amphicephala
Synedra pulchella
Synedra tenera
Synedra ulna
Cocconeis pediculus
Cocconeis placentula
Achnanthes clevei
Achnanthes hauckiana
Achnanthes minutissima
Amphipleura pellucida
Gyrosigma acuminatum
Pleurosigma delicatulum
Navicula arvensis
Navicula cryptocephala
Navicula gregaria
Navicula mutica
Navicula pelliculosa
Navicula salinarum var. *intermedia*
Navicula tantula
Navicula tripunctata
Navicula vaucheriae
Navicula viridula
Navicula sp.
Caloneis amphisbaena
Caloneis bacillum
Pinnularia brebissonii
Amphora ovalis var. *pediculus*

APPENDIX D-9-5 (Continued)

Cymbella affinis
Cymbella sinuata
Cymbella tumida
Cymbella ventricosa
Gomphonema constrictum
Gomphonema intricatum
Gomphonema lanceolatum
Gomphonema olivaceum
Gomphonema parvulum
Cylindrotheca gracilis
Epitemia sorex
Rhopalodia gibba
Rhopalodia gibberula
Amphiprora alata
Nitzschia acicularis
Nitzschia apiculata
Nitzschia capitellata
Nitzschia chasei
Nitzschia dissipata
Nitzschia fonticola
Nitzschia frustulum
Nitzschia gracilis
Nitzschia holsatica
Nitzschia linearis
Nitzschia microcephala
Nitzschia palea
Nitzschia vermicularis
Cymatopleura solea
Surirella ovata
Surirella ovalis

APPENDIX D-9 -6

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES

JULY - AUGUST 1975

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Site = 80 Rep = 1

TAXON	DENSITY (CELLS/SQUARE MM)
[illegible]PHYTA	
[illegible]	7.00
[illegible]	1.00
[illegible]	7.00
GYROSIGMA ACUMINATUM	.02
PLEUROSIGMA DELICATULUM	.02
NAVICULA CRYPTOCEPHALA	9.00
NAVICULA PELLICULOSA	1.00
[illegible]	7.00
[illegible]	3.00
[illegible]	4.00
[illegible] CAPITELLATA	3.00
[illegible]	3.00
NITZSCHIA HOLSATICA	4.00
NITZSCHIA PALEA	3.00

RBOSP PROGRESS REPORT

APPENDIX D-9-6 (Continued)

SITE = 80 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	34.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	20.00
SYNEDRA PULCHELLA	7.00
ACHNANTHES MINUTISSIMA	658.00
GYROSIGMA ACUMINATUM	.60
NAVICULA ARVENSIS	7.00
NAVICULA CRYPTOCEPHALA	40.00
NAVICULA VIRIDULA	7.00
CYMBELLA VENTRICOSA	125.00
GOMPHONEMA LANCEOLATUM	40.00
NITZSCHIA FONTICOLA	61.00
NITZSCHIA FRUSTULUM	34.00
NITZSCHIA HOLSATICA	7.00
NITZSCHIA PALEA	27.00

APPENDIX D-9-6 (Continued)

SITE = 80 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
OSCILLATORIA SPP	12.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	6.00
COCCONEIS PLACENTULA	1.00
ACHNANTHES MINUTISSIMA	2.00
GYROSIGMA ACUMINATUM	.02
NAVICULA CRYPTOCEPHALA	1.00
NAVICULA MUTICA	1.00
CYMBELLA VENTRICOSA	1.00
NITZSCHIA CAPITELLATA	1.00
NITZSCHIA PALEA	1.00

APPENDIX D-9-6 (Continued)

SITE = 81 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
OSCILLATORIA SPP	13.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	38.00
SYNEDRA PULCHELLA	1.00
SYNEDRA ULNA	1.00
ACHNANTHES MINUTISSIMA	12.00
GYROSIGMA ACUMINATUM	1.00
NAVICULA CRYPTOCEPHALA	18.00
NAVICULA TRIPUNCTATA	1.00
NAVICULA VIRIDULA	8.00
AMPHORA OVALIS VAR. PEDICULUS	2.00
CYMBELLA VENTRICOSA	27.00
NITZSCHIA ACICULARIS	2.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	1.00
NITZSCHIA FONTICOLA	7.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	10.00
NITZSCHIA PALEA	45.00

APPENDIX D-9-6 (Continued)

SITE = 81 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	10.00
OSCILLATORIA SPP	2.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	27.00
ACHNANTHES MINUTISSIMA	20.00
GYROSIGMA ACUMINATUM	.12
PLEUROSIGMA DELICATULUM	.09
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	23.00
NAVICULA PELLICULOSA	2.00
NAVICULA VIRIDULA	8.00
CALONEIS AMPHISBAENA	.03
CYMBELLA VENTRICOSA	5.00
AMPHIPRORA ALATA	3.00
NITZSCHIA ACICULARIS	3.00
NITZSCHIA APICULATA	5.00
NITZSCHIA CAPITELLATA	30.00
NITZSCHIA FONTICOLA	15.00
NITZSCHIA FRUSTULUM	20.00

APPENDIX D-9-6 (Continued)

SITE = S1 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	76.00
NITZSCHIA MICROCEPHALA	2.00
NITZSCHIA PALEA	104.00
SURIRELLA OVALIS	.05

APPENDIX D-9-6 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
DIATOMA VULGARE	169.00
FRAGILARIA PINNATA	22.00
FRAGILARIA VAUCHERIAE	11.00
SYNEDRA ULNA	247.00
COCCONEIS PLACENTULA	45.00
ACHNANTHES MINUTISSIMA	45.00
AMPHIPLEURA PELLUCIDA	11.00
NAVICULA CRYPTOCEPHALA	130.00
NAVICULA PELLICULOSA	11.00
NAVICULA SALINARUM VAR. INTERMEDIA	180.00
NAVICULA TRIPUNCTATA	56.00
NAVICULA VIRIDULA	90.00
AMPHORA OVALIS VAR. PEDICULUS	34.00
CYMBELLA AFFINIS	67.00
CYMBELLA SINUATA	22.00
CYMBELLA VENTRICOSA	79.00
GOMPHONEMA INTRICATUM	56.00
GOMPHONEMA OLIVACEUM	157.00
EPITHEMIA SOREX	34.00
RHOPALODIA GIBBERULA	11.00
NITZSCHIA DISSIPATA	281.00

APPENDIX I D-9-6 (Continued)

SITE = S3 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FONTICOLA	11.00
NITZSCHIA FRUSTULUM	56.00
NITZSCHIA HOLSATICA	259.00
NITZSCHIA PALEA	11.00
SURIRELLA OVATA	11.00

APPENDIX D-9-6 (Continued)

SITE = 83 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
DIATOMA VULGARE	68.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	38.00
COCCONEIS PLACENTULA	3.00
NAVICULA CRYPTOCEPHALA	17.00
NAVICULA SALINARUM VAR. INTERMEDIA	64.00
NAVICULA TRIPUNCTATA	20.00
NAVICULA VIRIDULA	30.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	24.00
GOMPHONEMA OLIVACEUM	118.00
GOMPHONEMA PARVULUM	223.00
EPITHEMIA SOREX	7.00
NITZSCHIA DISSIPATA	30.00
NITZSCHIA HOLSATICA	20.00
SURIRELLA OVATA	3.00

APPENDIX D-9-6 (Continued)

SITE = 83 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	160.00
DIATOMA VULGARE	56.00
FRAGILARIA PINNATA	11.00
FRAGILARIA VAUCHERIAE	11.00
SYNEDRA TENERA	371.00
SYNEDRA ULNA	11.00
COCCONEIS PEDICULUS	34.00
COCCONEIS PLACENTULA	34.00
ACHNANTHES MINUTISSIMA	214.00
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA PELLICULOSA	112.00
NAVICULA SALINARUM VAR. INTERMEDIA	11.00
NAVICULA TANTULA	112.00
NAVICULA TRIPUNCTATA	67.00
NAVICULA VIRIDULA	11.00
NAVICULA SP 1	56.00
AMPHORA OVALIS VAR. PEDICULUS	56.00
CYMBELLA AFFINIS	45.00
CYMBELLA SINUATA	90.00
CYMBELLA VENTRICOSA	67.00
GOMPHONEMA INTRICATUM	517.00
GOMPHONEMA OLIVACEUM	

APPENDIX D-9-6 (Continued)

SITE = 83 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA PARVULUM	247.00
EPITHEMIA SOREX	11.00
RHOPALODIA GIBBA	.10
NITZSCHIA ACICULARIS	11.00
NITZSCHIA CAPITELLATA	11.00
NITZSCHIA DISSIPATA	236.00
NITZSCHIA FONTICOLA	11.00
NITZSCHIA FRUSTULUM	11.00
NITZSCHIA HOLSATICA	1485.00
NITZSCHIA LINEARIS	11.00
NITZSCHIA PALEA	34.00

APPENDIX D-9-6 (Continued)

SITE = 67 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	38.00
CHRYSOPHYTA	
DIATOMA VULGARE	9.00
FRAGILARIA LEPTOSTAURON	19.00
FRAGILARIA PINNATA	57.00
FRAGILARIA VAUCHERIAE	48.00
SYNEDRA ULNA	19.00
ACHNANTHES MINUTISSIMA	38.00
AMPHIPLEURA PELLUCIDA	9.00
GYROSIGMA ACUMINATUM	.03
NAVICULA CRYPTOCEPHALA	193.00
NAVICULA SALINARUM VAR. INTERMEDIA	33.00
NAVICULA TRIPUNCTATA	116.00
NAVICULA VIRIDULA	35.00
AMPHORA OVALIS VAR. PEDICULUS	38.00
CYMBELLA AFFINIS	9.00
CYMBELLA SINUATA	19.00
CYMBELLA VENTRICOSA	135.00
GOMPHONEMA INTRICATUM	154.00

APPENDIX D-9-6 (Continued)

SITE = 37 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	868.00
GOMPHONEMA PARVULUM	67.00
NITZSCHIA CAPITELLATA	19.00
NITZSCHIA DISSIPATA	453.00
NITZSCHIA FRUSTULUM	9.00
NITZSCHIA HOLSATICA	173.00
NITZSCHIA PALEA	19.00
SURIRELLA OVATA	29.00
SURIRELLA OVALIS	.08

APPENDIX D-9-6 (Continued)

SITE = 67 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	40.00
OSCILLATORIA SPP	18.00
CHRYSOPHYTA	
DIATOMA VULGARE	13.00
SYNEDRA ULNA	13.00
COCCONEIS PEDICULUS	36.00
COCCONEIS PLACENTULA	4.00
PLEUROSIGMA DELICATULUM	.04
NAVICULA CRYPTOCEPHALA	61.00
NAVICULA SALINARUM VAR. INTERMEDIA	22.00
NAVICULA TANTULA	9.00
NAVICULA TRIPUNCTATA	58.00
NAVICULA VAUCHERIAE	9.00
NAVICULA VIRIDULA	67.00
CALONEIS BACILLUM	4.00
AMPHORA OVALIS VAR. PEDICULUS	40.00
CYMBELLA AFFINIS	13.00
CYMBELLA SINUATA	40.00
CYMBELLA VENTRICOSA	13.00

APPENDIX D-3-E (Continued)

SITE = 37 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	139.00
GOMPHONEMA PARVULUM	13.00
NITZSCHIA APICULATA	4.00
NITZSCHIA CHASEI	9.00
NITZSCHIA DISSIPATA	216.00
NITZSCHIA FONTICOLA	4.00
NITZSCHIA FRUSTULUM	9.00
NITZSCHIA GRACILIS	9.00
NITZSCHIA HOLSATICA	32.00
NITZSCHIA PALEA	4.00
CYMATOPLEURA SOLEA	.04
SURIRELLA OVATA	4.00

APPENDIX D-9-6 (Continued)

SITE = 87 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	29.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	9.00
FRAGILARIA VAUCHERIAE	9.00
SYNEDRA ULNA	38.00
COCCONEIS PEDICULUS	15.00
GYROSIGMA ACUMINATUM	.08
PLEUROSIGMA DELICATULUM	4.00
NAVICULA CRYPTOCEPHALA	120.00
NAVICULA MUTICA	9.00
NAVICULA SALINARUM VAR. INTERMEDIA	19.00
NAVICULA TRIPUNCTATA	57.00
NAVICULA VAUCHERIAE	4.00
NAVICULA VIRIDULA	106.00
CALONEIS AMPHISBAENA	.03
CALONEIS BACILLUM	4.00
PINNULARIA BREBISSONII	4.00
AMPHORA OVALIS VAR. PEDICULUS	33.00
CYMBELLA AFFINIS	15.00

APPENDIX D-9-6 (Continued)

SITE = 87 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA SINUATA	91.00
CYMBELLA TUMIDA	.08
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA CONSTRICTUM	4.00
GOMPHONEMA OLIVACEUM	294.00
GOMPHONEMA PARVULUM	38.00
RHOPALODIA GIBBA	4.00
NITZSCHIA CAPITELLATA	9.00
NITZSCHIA DISSIPATA	265.00
NITZSCHIA FONTICOLA	24.00
NITZSCHIA FRUSTULUM	4.00
NITZSCHIA GRACILIS	4.00
NITZSCHIA HOLSATICA	33.00
SURIRELLA OVATA	4.00
SURIRELLA OVALIS	.08

APPENDIX D-9-6 (Continued)

SITE = 89 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	7.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
DIATOMA VULGARE	14.00
FRAGILARIA PINNATA	7.00
FRAGILARIA VAUCHERIAE	17.00
SYNEDRA ULNA	37.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES MINUTISSIMA	3.00
GYROSIGMA ACUMINATUM	.06
NAVICULA CRYPTOCEPHALA	30.00
NAVICULA SALINARUM VAR. INTERMEDIA	27.00
NAVICULA TRIPUNCTATA	14.00
NAVICULA VIRIDULA	37.00
CALONEIS BACILLUM	7.00
AMPHORA OVALIS VAR. PEDICULUS	7.00
CYMBELLA AFFINIS	10.00
CYMBELLA SINUATA	7.00
CYMBELLA VENTRICOSA	27.00

APPENDIX D-9-6 (Continued)

SITE = 99 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA INTRICATUM	37.00
GOMPHONEMA OLIVACEUM	341.00
GOMPHONEMA PARVULUM	51.00
CYLINDROTHECA GRACILIS	3.00
NITZSCHIA CHASEI	3.00
NITZSCHIA DISSIPATA	34.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	365.00
NITZSCHIA PALEA	3.00

APPENDIX D-9-6 (Continued)

SITE = 89 REP = 2

TAXUN	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	17.00
OSCILLATORIA SPP	10.00
CHRYSOPHYTA	
FRAGILARIA PINNATA	27.00
FRAGILARIA VAUCHERIAE	3.00
SYNEDRA ULNA	74.00
ACHNANTHES MINUTISSIMA	3.00
GYROSIGMA ACUMINATUM	.06
NAVICULA CRYPTOCEPHALA	91.00
NAVICULA PELLICULOSA	3.00
NAVICULA SALINARUM VAR. INTERMEDIA	34.00
NAVICULA VAUCHERIAE	3.00
NAVICULA VIRIDULA	54.00
AMPHORA OVALIS VAR. PEDICULUS	17.00
CYMBELLA AFFINIS	10.00
CYMBELLA SINUATA	20.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA INTRICATUM	37.00
GOMPHONEMA OLIVACEUM	712.00

APPENDIX D-9-6 (Continued)

SITE = 89 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA PARVULUM	84.00
NITZSCHIA DISSIPATA	64.00
NITZSCHIA FONTICOLA	7.00
NITZSCHIA FRUSTULUM	37.00
NITZSCHIA GRACILIS	7.00
NITZSCHIA HOLSATICA	378.00
NITZSCHIA VERMICULARIS	3.00
CYMATOPLEURA SOLEA	.06
SURIRELLA OVATA	3.00

APPENDIX D-9-6 (Continued)

SITE = 89 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FONTICOLA	27.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	216.00
NITZSCHIA PALEA	7.00

APPENDIX D-9-6 (Continued)

SITE = 95 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	20.00
CHRYSOPHYTA	
DIATOMA VULGARE	14.00
FRAGILARIA LEPTOSTAURON	7.00
FRAGILARIA VAUCHERIAE	47.00
SYNEDRA TENERA	7.00
SYNEDRA ULNA	142.00
NAVICULA CRYPTOCEPHALA	61.00
NAVICULA PELLICULOSA	7.00
NAVICULA SALINARUM VAR. INTERMEDIA	7.00
NAVICULA VIRIDULA	34.00
AMPHORA OVALIS VAR. PEDICULUS	7.00
CYMBELLA AFFINIS	14.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA INTRICATUM	40.00
GOMPHONEMA OLIVACEUM	439.00
GOMPHONEMA PARVULUM	68.00
NITZSCHIA CHASEI	7.00
NITZSCHIA FONTICOLA	14.00

APPENDIX D-9-6 (Continued)

SITE = 95 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA HOLSATICA	425.00

APPENDIX D-9-6 (Continued)

SITE = 95 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	20.00
CHRYSOPHYTA	
DIATOMA VULGARE	14.00
FRAGILARIA VAUCHERIAE	17.00
SYNEDRA TENERA	3.00
SYNEDRA ULNA	94.00
COCCONEIS PLACENTULA	3.00
NAVICULA CRYPTOCEPHALA	51.00
NAVICULA PELLICULOSA	3.00
NAVICULA SALINARUM VAR. INTERMEDIA	20.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	3.00
CALONEIS AMPHISBAENA	.06
AMPHORA OVALIS VAR. PEDICULUS	10.00
CYMBELLA SINUATA	3.00
CYMBELLA VENTRICOSA	3.00
GOMPHONEMA INTRICATUM	14.00
GOMPHONEMA OLIVACEUM	145.00
GOMPHONEMA PARVULUM	179.00

APPENDIX D-9-6 (Continued)

SITE = 95 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	17.00
NITZSCHIA FONTICOLA	10.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA HOLSATICA	230.00
SURIRELLA OVATA	3.00

APPENDIX D-9-6 (Continued)

SITE = 95 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	40.00
CHLOROPHYTA	
CLADOPHORA SPP	3.00
CHRYSOPHYTA	
DIATOMA VULGARE	10.00
FRAGILARIA PINNATA	14.00
FRAGILARIA VAUCHERIAE	37.00
SYNEDRA ULNA	209.00
GYROSIGMA ACUMINATUM	3.00
NAVICULA CRYPTOCEPHALA	40.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	27.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	10.00
CYMBELLA VENTRICOSA	17.00
GOMPHONEMA ACUMINATUM	3.00
GOMPHONEMA INTRICATUM	14.00
GOMPHONEMA OLIVACEUM	236.00

APPENDIX D-9-6 (Continued)

SITE = 95 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA PARVULUM	273.00
NITZSCHIA DISSIPATA	24.00
NITZSCHIA HOLSATICA	240.00

APPENDIX D-9-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-9-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Station Replicate	Dry Weight (g)	Organic Weight (g)
20-A	0.0950	0.0088
20-B	0.2277	0.0322
20-C	0.0239	0.0028
21-A	0.1500	0.0241
21-B	0.2089	0.0285
21-C	0.1511	0.0172
23-A	0.1615	0.0190
23-B	0.0718	0.0094
23-C	0.1984	0.0208
27-A	0.3312	0.0285
27-B	0.1612	0.0175
27-C	0.5185	0.0659
29-A	0.2239	0.0241
29-B	0.1646	0.0155
29-C	0.2812	0.0165
35-A	0.0549	0.0082
35-B	0.0790	0.0136
35-C	0.0346	0.0057

APPENDIX D-9-8

CHLOROPHYLL A CONCENTRATIONS FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-9-8

CHLOROPHYLL A CONCENTRATIONS FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975. (Data are expressed as mg/cm^2)

Station	Replicate		
	A	B	C
20	.0001	.0001	.0006
21	.0001	.0001	<.0001
23	.0016	.0030	.0012
27	.0023	.0019	.0016
29	.0024	.0013	.0019
35	.0006	.0005	.0003

APPENDIX D-10-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-10-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

CYANOPHYTA

Anabaena spp.
Calothrix spp.
Lyngbya spp.

CHLOROPHYTA

Cladophora spp.
Stigeoclonium spp.

CHRYSOPHYTA

Achnanthes lanceolata
Achnanthes minutissima
Amphipleura pellucida
Amphiprora alata
Amphora montana
Amphora ovalis
Amphora ovalis var. *pediculus*
Amphora sp.
Anomoeoneis sphaerophora
Bicoeca lacustris
Caloneis amphisbaena
Caloneis bacillum
Caloneis ventricosa
Chrysidiastrum ocellatum
Cocconeis pediculus
Cocconeis placentula
Cyclotella meneghiniana
Cylindrotheca gracilis
Cymatopleura solea
Cymbella affinis
Cymbella mexicana
Cymbella microcephala
Cymbella sinuata
Cymbella ventricosa
Diatoma vulgare
Diploneis oculata
Epithemia sorex
Epithemia zebra
Fragilaria construens
Fragilaria leptostauron
Fragilaria pinnata
Fragilaria vaucheriae
Gomphonema acuminatum
Gomphonema acuminatum var. *coronatum*
Gomphonema constrictum
Gomphonema intricatum

Gomphonema olivaceum
Gomphonema parvulum
Gomphonema ventricosum
Gomphonema sp. 1
Gyrosigma acuminatum
Hantzschia amphioxys
Mastogloia smithii
Melosira varians
Meridion circulare
Navicula arvensis
Navicula cryptocephala
Navicula cuspidata
Navicula mutica
Navicula oblonga
Navicula pelliculosa
Navicula pupula
Navicula radiosa
Navicula salinarum
Navicula salinarum var. *intermedia*
Navicula subhamulata
Navicula tantula
Navicula tripunctata
Navicula vaucheriae
Navicula viridula
Navicula sp. 1
Navicula sp. 2
Navicula sp. 5
Navicula sp. 6
Nitzschia acicularis
Nitzschia amphibia
Nitzschia apiculata
Nitzschia capitellata
Nitzschia chasei
Nitzschia denticula
Nitzschia dissipata
Nitzschia fonticola
Nitzschia frustulum
Nitzschia gracilis
Nitzschia holsatica
Nitzschia hungarica
Nitzschia latens
Nitzschia linearis
Nitzschia microcephala
Nitzschia palea
Nitzschia sigma
Nitzschia sigmoidea
Nitzschia vermicularis
Pleurosigma delicatulum
Pinnularia brebissonii
Pinnularia viridis

Rhoicosphenia curvata
Rhopalodia gibba
Rhopalodia gibberula
Scenedesmus incrassatulus
Spriogyra spp.
Stephanodiscus astraea
Surirella angustata
Surirella ovata
Surirella ovalis
Synedra amphicephala
Synedra delicatissima
Synedra minuscula
Synedra pulchella
Synedra tenera
Synedra ulna

RBOSP PROGRESS REPORT

APPENDIX D-10-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

ENDIX D-10-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

Site = 01 Rep = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	7196.00
ACHNANTHES LANCEOLATA	9.00
ACHNANTHES MINUTISSIMA	1246.00
NAVICULA ARVENSIS	18.00
NAVICULA CRYPTOCEPHALA	50.00
NAVICULA PELLICULOSA	4.00
NAVICULA SP 1	4.00
PINNULARIA VIRIDIS	.04
AMPHORA MONTANA	22.00
CYMBELLA AFFINIS	4.00
GOMPHONEMA PARVULUM	13.00
NITZSCHIA CAPITELLATA	4.00
NITZSCHIA DENTICULA	67.00
NITZSCHIA MICROCEPHALA	4.00

[illegible] PROGRESS REPORT

APPENDIX D-10-2 (Continued)

SITE = 01 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	9523.00
SYNEDRA AMPHICEPHALA	5.00
ACHNANTHES LANCEOLATA	5.00
ACHNANTHES MINUTISSIMA	165.00
NAVICULA ARVENSIS	11.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA SP 1	16.00
NAVICULA SP 2	3.00
NAVICULA SP 6	3.00
PINNULARIA VIRIDIS	.02
GOMPHONEMA PARVULUM	8.00
NITZSCHIA DENTICULA	165.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA LINEARIS	.02
NITZSCHIA PALEA	24.00
SURIRELLA OVATA	.02

APPENDIX D-10-2 (Continued)

SITE = 01 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	722.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	198.00
NAVICULA ARVENSIS	6.00
NAVICULA CRYPTOCEPHALA	6.00
NAVICULA SP 1	2.00
CYMBELLA AFFINIS	2.00
GOMPHONEMA PARVULUM	4.00
NITZSCHIA ACICULARIS	2.00
NITZSCHIA DENTICULA	36.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA GRACILIS	6.00
NITZSCHIA LINEARIS	.02
NITZSCHIA PALEA	6.00

APPENDIX D-10-2 (Continued)

SITE = 02 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	126.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	169.00
NAVICULA ARVENSIS	2.00
NAVICULA TANTULA	4.00
NAVICULA SP 2	2.00
GOMPHONEMA INTRICATUM	2.00
NITZSCHIA DISSIPATA	2.00
SURIRELLA OVALIS	.06

APPENDIX D-10-2 (Continued)

SITE = 02 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	50.00
SYNEDRA AMPHICEPHALA	2.00
ACHNANTHES LANCEOLATA	1.00
ACHNANTHES MINUTISSIMA	55.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	2.00
NAVICULA SP 2	1.00
NITZSCHIA CAPITELLATA	1.00
NITZSCHIA DENTICULA	3.00
NITZSCHIA FRUSTULUM	2.00
NITZSCHIA LINEARIS	.02
NITZSCHIA PALEA	2.00
SURIRELLA OVALIS	1.04

APPENDIX D-10-2 (Continued)

SITE = 02 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	56.00
ACHNANTHES LANCEOLATA	9.00
ACHNANTHES MINUTISSIMA	56.00
NAVICULA CRYPTOCEPHALA	1.00
NAVICULA SP 2	1.00
CALONEIS BACILLUM	1.00
NITZSCHIA FONTICOLA	1.00
NITZSCHIA FRUSTULUM	5.00
SURIRELLA OVALIS	1.00

APPENDIX D-10-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES LANCEOLATA	6.00
ACHNANTHES MINUTISSIMA	18.00
ANOMOEONEIS SPHAEROPHORA	9.00
NAVICULA CRYPTOCEPHALA	11.00
NAVICULA MUTICA	2.00
NAVICULA PELLICULOSA	2.00
NAVICULA TANTULA	2.00
NAVICULA VIRIDULA	4.00
NAVICULA SP 1	9.00
NAVICULA SP 2	22.00
AMPHORA MONTANA	2.00
CYMBELLA AFFINIS	4.00
EPITHEMIA ZEBRA	2.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA CAPITELLATA	4.00
NITZSCHIA DENTICULA	4.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA GRACILIS	2.00
NITZSCHIA HOLSATICA	9.00
NITZSCHIA LINEARIS	2.00
NITZSCHIA PALEA	4.00

APPENDIX D-10-2 (Continued)

SITE = 03 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SURIRELLA OVALIS	4.00
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APPENDIX D-10-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
DIATOMA VULGARE	3.00
COCCONEIS PEDICULUS	3.00
ACHNANTHES LANCEOLATA	111.00
ACHNANTHES MINUTISSIMA	67.00
ANOMOEONEIS SPHAEROPHORA	61.00
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	71.00
NAVICULA MUTICA	7.00
NAVICULA PELLICULOSA	277.00
NAVICULA TANTULA	3.00
NAVICULA TRIPUNCTATA	3.00
NAVICULA VIRIDULA	3.00
NAVICULA SP 1	88.00
NAVICULA SP 2	138.00
PINNULARIA VIRIDIS	.06
AMPHORA MONTANA	10.00
CYMBELLA AFFINIS	3.00
GOMPHONEMA INTRICATUM	3.00
EPITHEMIA ZEBRA	.06
RHOPALODIA GIBBERULA	7.00
NITZSCHIA CAPITELLATA	47.00

APPENDIX D-10-2 (Continued)

SITE = 03 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FONTICOLA	17.00
NITZSCHIA FRUSTULUM	115.00
NITZSCHIA HOLSATICA	30.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA MICROCEPHALA	3.00
NITZSCHIA PALEA	37.00
SURIRELLA OVATA	3.00
SURIRELLA OVALIS	3.00

APPENDIX D-10-2 (Continued)

SITE = 03 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	10.00
ANOMOEONEIS SPHAEROPHORA	10.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	8.00
NAVICULA MUTICA	2.00
NAVICULA PELLICULOSA	7.00
NAVICULA SP 1	25.00
NAVICULA SP 2	22.00
NAVICULA SP 6	2.00
PINNULARIA VIRIDIS	.03
AMPHORA MONTANA	2.00
AMPHORA SP 1	2.00
GOMPHONEMA INTRICATUM	2.00
GOMPHONEMA PARVULUM	2.00
EPITHEMIA ZEBRA	2.00
NITZSCHIA CAPITELLATA	14.00
NITZSCHIA DENTICULA	2.00
NITZSCHIA FONTICOLA	4.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA LINEARIS	2.00

APPENDIX D-10-2 (Continued)

SITE = U3 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SURIRELLA OVALIS	.09

APPENDIX D-10-2 (Continued)

SITE = 04 REP = I

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	148.00
ACHNANTHES LANCEOLATA	27.00
ACHNANTHES MINUTISSIMA	425.00
GYROSIGMA ACUMINATUM	.06
NAVICULA ARVENSIS	51.00
NAVICULA CRYPTOCEPHALA	182.00
NAVICULA MUTICA	3.00
NAVICULA PELLICULOSA	20.00
NAVICULA VIRIDULA	10.00
NAVICULA SP 1	61.00
NAVICULA SP 2	3.00
NAVICULA SP 5	3.00
AMPHORA MONTANA	3.00
CYMBELLA VENTRICOSA	7.00
GOMPHONEMA INTRICATUM	27.00
NITZSCHIA ACICULARIS	7.00
NITZSCHIA CAPITELLATA	34.00
NITZSCHIA DENTICULA	14.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA HOLSATICA	20.00
NITZSCHIA LINEARIS	3.00

APPENDIX D-10-2 (Continued)

SITE = 04 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA PALEA	27.00
SURIRELLA OVATA	3.00
SURIRELLA OVALIS	.06

APPENDIX D-10-2 (Continued)

SITE = 04 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	81.00
SYNEDRA AMPHICEPHALA	7.00
ACHNANTHES LANCEOLATA	47.00
ACHNANTHES MINUTISSIMA	324.00
GYROSIGMA ACUMINATUM	1.00
NAVICULA ARVENSIS	54.00
NAVICULA CRYPTOCEPHALA	155.00
NAVICULA PELLICULOSA	14.00
NAVICULA VIRIDULA	14.00
NAVICULA SP 1	142.00
NAVICULA SP 2	20.00
PINNULARIA BREBISSONII	7.00
PINNULARIA VIRIDIS	.06
GOMPHONEMA INTRICATUM	47.00
NITZSCHIA CAPITELLATA	47.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA LINEARIS	20.00
NITZSCHIA PALEA	14.00
SURIRELLA OVALIS	.20

APPENDIX D-10-2 (Continued)

SITE = 04 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOSECA LACUSTRIS	22.00
SYNEDRA TENERA	2.00
ACHNANTHES LANCEOLATA	16.00
ACHNANTHES MINUTISSIMA	58.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	16.00
NAVICULA PELLICULOSA	4.00
NAVICULA TANTULA	2.00
NAVICULA VIRIDULA	4.00
NAVICULA SP 1	22.00
PINNULARIA VIRIDIS	.02
GOMPHONEMA INTRICATUM	4.00
NITZSCHIA CAPITELLATA	6.00
NITZSCHIA DENTICULA	6.00
NITZSCHIA HOLSATICA	4.00
NITZSCHIA LINEARIS	4.00
NITZSCHIA PALEA	9.00

APPENDIX D-10-2 (Continued)

SITE = 05 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHLOROPHYTA	
CLADOPHORA SPP	81.00
CHRYSOPHYTA	
COCCONEIS PLACENTULA	45.00
ACHNANTHES LANCEOLATA	54.00
ACHNANTHES MINUTISSIMA	81.00
RHOICOSPHENIA CURVATA	13.00
PLEUROSIGMA DELICATULUM	13.00
NAVICULA CRYPTOCEPHALA	13.00
NAVICULA CUSPIDATA	.10
NAVICULA OBLONGA	.10
NAVICULA PELLICULOSA	4.00
NAVICULA RADIOSA	9.00
NAVICULA TANTULA	13.00
NAVICULA VIRIDULA	4.00
NAVICULA SP 1	18.00
PINNULARIA VIRIDIS	.04
CYMBELLA AFFINIS	4.00
CYMBELLA MICROCEPHALA	4.00
EPITHEMIA ZEBRA	22.00

APPENDIX D-10-2 (Continued)

SITE = G5 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBA	.10
RHOPALODIA GIBBERULA	90.00
NITZSCHIA AMPHIBIA	9.00
NITZSCHIA DISSIPATA	4.00
NITZSCHIA FONTICOLA	9.00
NITZSCHIA FRUSTULUM	338.00
NITZSCHIA PALEA	4.00

APPENDIX D-10-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	10.00
CALOTHRIX SPP	3.00
CHRYSOPHYTA	
COCCONEIS PLACENTULA	37.00
ACHNANTHES LANCEOLATA	7.00
ACHNANTHES MINUTISSIMA	486.00
RHOICOSPHENIA CURVATA	51.00
MASTOGLOIA SMITHII	3.00
PLEUROSIGMA DELICATULUM	20.00
NAVICULA CRYPTOCEPHALA	24.00
NAVICULA CUSPIDATA	.03
NAVICULA OBLONGA	.24
NAVICULA PELLICULOSA	3.00
NAVICULA RADIOSA	.10
NAVICULA SALINARUM	3.00
NAVICULA SP 1	14.00
CALONEIS BACILLUM	10.00
PINNULARIA VIRIDIS	3.00
GOMPHONEMA INTRICATUM	3.00

APPENDIX D-10-2 (Continued)

SITE = 05 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA SP 1	3.00
EPITHEMIA ZEBRA	20.00
NITZSCHIA AMPHIBIA	3.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	125.00
NITZSCHIA HOLSATICA	3.00
NITZSCHIA PALEA	3.00

APPENDIX D-10-2 (Continued)

SITE = 05 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	7.00
CHLOROPHYTA	
CLADOPHORA SPP	3.00
CHRYSOPHYTA	
COCCONEIS PLACENTULA	47.00
ACHNANTHES LANCEOLATA	37.00
ACHNANTHES MINUTISSIMA	685.00
MASTOGLOIA SMITHII	3.00
PLEUROSIGMA DELICATULUM	7.00
NAVICULA CRYPTOCEPHALA	17.00
NAVICULA CUSPIDATA	.06
NAVICULA OBLONGA	.40
NAVICULA PELLICULOSA	7.00
NAVICULA RADIOSA	3.00
NAVICULA TANTULA	7.00
NAVICULA SP 1	14.00
NAVICULA SP 2	3.00

APPENDIX D-10-2 (Continued)

SITE = 05 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CALONEIS BACILLUM	7.00
PINNULARIA VIRIDIS	.10
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	14.00
CYMBELLA MICROCEPHALA	3.00
GOMPHONEMA INTRICATUM	3.00
EPITHEMIA ZEBRA	24.00
RHOPALODIA GIBBA	.10
HANTZSCHIA AMPHIOXYS	3.00
NITZSCHIA CAPITELLATA	3.00
NITZSCHIA DENTICULA	14.00
NITZSCHIA FRUSTULUM	216.00

APPENDIX D-10-2 (Continued)

SITE = 07 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	5991.00
GYROSIGMA ACUMINATUM	.04
PLEUROSIGMA DELICATULUM	.04
NAVICULA SP 1	9.00
AMPHORA OVALIS	4.00
GOMPHONEMA INTRICATUM	4.00
GOMPHONEMA PARVULUM	9.00
NITZSCHIA DENTICULA	9.00
NITZSCHIA FRUSTULUM	13.00
NITZSCHIA LINEARIS	.28

APPENDIX D-10-2 (Continued)

SITE = 07 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	1724.00
GYROSIGMA ACUMINATUM	.16
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	32.00
NAVICULA PELLICULOSA	40.00
NAVICULA TANTULA	3.00
NAVICULA SP 1	9.00
NAVICULA SP 2	3.00
NITZSCHIA FRUSTULUM	18.00
NITZSCHIA HOLSATICA	9.00
NITZSCHIA LINEARIS	.16
SURIRELLA OVALIS	.04

APPENDIX D-10-2 (Continued)

SITE = 07 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	1491.00
GYROSIGMA ACUMINATUM	.08
NAVICULA ARVENSIS	4.00
NAVICULA CRYPTOCEPHALA	13.00
NAVICULA SP 1	4.00
RHOPALODIA GIBBERULA	4.00
NITZSCHIA DISSIPATA	4.00
SURIRELLA OVALIS	.04

APPENDIX D-10-2 (Continued)

SITE = OS REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	911.00
MERIDION CIRCULARE	74.00
FRAGILARIA VAUCHERIAE	10.00
ACHNANTHES LANCEOLATA	20.00
ACHNANTHES MINUTISSIMA	189.00
NAVICULA ARVENSIS	10.00
NAVICULA CRYPTOCEPHALA	54.00
NAVICULA PELLICULOSA	3.00
CYMBELLA AFFINIS	3.00
GOMPHONEMA INTRICATUM	57.00
NITZSCHIA FRUSTULUM	7.00
NITZSCHIA LINEARIS	7.00
NITZSCHIA PALEA	3.00
SURIRELLA OVATA	3.00

APPENDIX D-10-2 (Continued)

SITE = GB REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1400.00
BICOECA LACUSTRIS	22.00
CHRYSIDIASTRUM OCELLATUM	58.00
MERIDION CIRCULARE	9.00
ACHNANTHES LANCEOLATA	99.00
ACHNANTHES MINUTISSIMA	.08
GYROSIGMA ACUMINATUM	9.00
NAVICULA CRYPTOCEPHALA	4.00
NAVICULA PELLICULOSA	54.00
GOMPHONEMA INTRICATUM	4.00
RHOPALODIA GIBBERULA	4.00
NITZSCHIA ACICULARIS	4.00
NITZSCHIA LINEARIS	15.00
NITZSCHIA PALEA	

APPENDIX D-10-2 (Continued)

SITE = OS REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
BICOECA LACUSTRIS	861.00
CHRYSIDIASTRUM OCELLATUM	3.00
MERIDION CIRCULARE	27.00
ACHNANTHES LANCEOLATA	3.00
ACHNANTHES MINUTISSIMA	44.00
GYROSIGMA ACUMINATUM	.02
NAVICULA ARVENSIS	3.00
NAVICULA CRYPTOCEPHALA	30.00
CYMBELLA AFFINIS	3.00
GOMPHONEMA INTRICATUM	34.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA LINEARIS	.15
NITZSCHIA PALEA	14.00
SURIRELLA OVATA	3.00

APPENDIX D-10-2 (Continued)

SITE = 09 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA AMPHICEPHALA	7.00
ACHNANTHES MINUTISSIMA	2079.00
GYROSIGMA ACUMINATUM	.21
NAVICULA ARVENSIS	7.00
NAVICULA CRYPTOCEPHALA	34.00
NAVICULA CUSPIDATA	.03
NAVICULA MUTICA	3.00
NAVICULA VIRIDULA	7.00
NAVICULA SP 1	20.00
NAVICULA SP 2	3.00
CALONEIS BACILLUM	7.00
PINNULARIA VIRIDIS	.10
AMPHORA OVALIS	3.00
CYMBELLA AFFINIS	7.00
RHOPALODIA GIBBERULA	7.00
NITZSCHIA DENTICULA	51.00
NITZSCHIA FRUSTULUM	10.00
NITZSCHIA LINEARIS	1.00
NITZSCHIA PALEA	3.00
SURIRELLA OVALIS	.20

APPENDIX D-10-2 (Continued)

SITE = 09 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	9.00
SYNEDRA AMPHICEPHALA	4842.00
ACHNANTHES MINUTISSIMA	4.00
GYROSIGMA ACUMINATUM	4.00
NAVICULA ARVENSIS	27.00
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA SP 1	4.00
NAVICULA SP 2	22.00
CALONEIS BACILLUM	.04
PINNULARIA BREBISSONII	4.00
CYMBELLA AFFINIS	4.00
NITZSCHIA APICULATA	76.00
NITZSCHIA DENTICULA	9.00
NITZSCHIA FRUSTULUM	4.00
NITZSCHIA HOLSATICA	4.00
NITZSCHIA LINEARIS	9.00
NITZSCHIA PALEA	5.00
SURIRELLA OVALIS	

APPENDIX D-10-2 (Continued)

SITE = 09 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES LANCEOLATA	18.00
ACHNANTHES MINUTISSIMA	9018.00
GYROSIGMA ACUMINATUM	.30
NAVICULA CRYPTOCEPHALA	67.00
NAVICULA PELLICULOSA	4.00
NAVICULA SP 1	45.00
NAVICULA SP 2	4.00
CALONEIS BACILLUM	45.00
AMPHORA OVALIS	9.00
AMPHORA SP 1	9.00
CYMBELLA AFFINIS	9.00
NITZSCHIA DENTICULA	126.00
NITZSCHIA FRUSTULUM	50.00
NITZSCHIA HOLSATICA	9.00
NITZSCHIA LINEARIS	9.00
NITZSCHIA PALEA	4.00
SURIRELLA OVALIS	.30

APPENDIX D-10-2 (Continued)

SITE = 12 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	20.00
GYROSIGMA ACUMINATUM	.06
NAVICULA SP 1	3.00
NAVICULA SP 2	3.00
CYMBELLA AFFINIS	3.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	30.00
NITZSCHIA DENTICULA	10.00
NITZSCHIA DISSIPATA	3.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	20.00
NITZSCHIA LINEARIS	3.00
NITZSCHIA PALEA	54.00
SURIRELLA OVALIS	.06

APPENDIX D-10-2 (Continued)

SITE = 12 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	3.00
ACHNANTHES LANCEOLATA	17.00
ACHNANTHES MINUTISSIMA	3.00
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA MUTICA	7.00
NAVICULA VIRIDULA	7.00
NAVICULA SP 1	13.00
NAVICULA SP 2	3.00
CYMBELLA AFFINIS	24.00
NITZSCHIA CAPITELLATA	3.00
NITZSCHIA DENTICULA	20.00
NITZSCHIA FRUSTULUM	3.00
NITZSCHIA GRACILIS	3.00
NITZSCHIA HOLSATICA	3.00
NITZSCHIA LINEARIS	78.00
NITZSCHIA PALEA	3.00
SURIRELLA OVALIS	

APPENDIX D-10-2 (Continued)

SITE = 12 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	22.00
NAVICULA ARVENSIS	2.00
NAVICULA CRYPTOCEPHALA	2.00
NAVICULA SP 1	3.00
NAVICULA SP 2	10.00
CYMBELLA AFFINIS	3.00
CYLINDROTHECA GRACILIS	2.00
HANTZSCHIA AMPHIOXYS	3.00
NITZSCHIA CAPITELLATA	8.00
NITZSCHIA DISSIPATA	2.00
NITZSCHIA FRUSTULUM	8.00
NITZSCHIA PALEA	66.00

APPENDIX D-10-2 (Continued)

SITE = 13 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	371.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	287.00
FRAGILARIA VAUCHERIAE	152.00
ACHNANTHES LANCEOLATA	287.00
ACHNANTHES MINUTISSIMA	1606.00
RHOICOSPHENIA CURVATA	17.00
GYROSIGMA ACUMINATUM	.30
NAVICULA ARVENSIS	17.00
NAVICULA CRYPTOCEPHALA	169.00
CYMBELLA AFFINIS	456.00
CYMBELLA VENTRICOSA	17.00
GOMPHONEMA INTRICATUM	1519.00
NITZSCHIA DISSIPATA	17.00
NITZSCHIA FRUSTULUM	51.00
NITZSCHIA LINEARIS	1.00
NITZSCHIA PALEA	68.00
SURIRELLA OVALIS	.10

APPENDIX D-10-2 (Continued)

SITE = 13 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	557.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	894.00
MERIDION CIRCULARE	34.00
FRAGILARIA VAUCHERIAE	135.00
ACHNANTHES LANCEOLATA	253.00
ACHNANTHES MINUTISSIMA	3101.00
NAVICULA ARVENSIS	84.00
NAVICULA CRYPTOCEPHALA	388.00
NAVICULA PELLICULOSA	456.00
NAVICULA TANTULA	51.00
NAVICULA VIRIDULA	17.00
CYMBELLA AFFINIS	203.00
CYMBELLA MICROCEPHALA	51.00
GOMPHONEMA INTRICATUM	270.00
RHOPALODIA GIBBA	.15
NITZSCHIA HOLSATICA	17.00
NITZSCHIA LINEARIS	.15
NITZSCHIA PALEA	17.00

APPENDIX D-10-2 (Continued)

SITE = 13 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	2031.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	776.00
FRAGILARIA VAUCHERIAE	7.00
ACHNANTHES LANCEOLATA	63.00
ACHNANTHES MINUTISSIMA	3618.00
NAVICULA CRYPTOCEPHALA	34.00
NAVICULA PELLICULOSA	142.00
NAVICULA SP 1	7.00
NAVICULA SP 2	7.00
PINNULARIA VIRIDIS	.06
GOMPHONEMA INTRICATUM	54.00
NITZSCHIA DENTICULA	189.00
NITZSCHIA DISSIPATA	7.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA HOLSATICA	14.00
SURIRELLA OVALIS	.06

APPENDIX D-10-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
LOROPHYTA	
ENEDESMUS INCRASSATULUS	54.00
RYSOPHYTA	
CLOTELLA MENEGHINIANA	94.00
AGILARIA PINNATA	14.00
YNEDRA AMPHICEPHALA	68.00
YNEDRA ULNA	.36
ACHNANTHES LANCEOLATA	14.00
ACHNANTHES MINUTISSIMA	7142.00
PLEUROSIGMA DELICATULUM	.12
NAVICULA CRYPTOCEPHALA	270.00
NAVICULA PELLICULOSA	14.00
NAVICULA SP 1	68.00
AMPHORA SP 1	27.00
CYMBELLA AFFINIS	3952.00
CYMBELLA MICROCEPHALA	364.00
CYMBELLA VENTRICOSA	310.00
NITZSCHIA AMPHIBIA	14.00
NITZSCHIA DENTICULA	2119.00
NITZSCHIA FRUSTULUM	14.00

APPENDIX D-10-2 (Continued)

SITE = 14 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA LINEARIS	.12
NITZSCHIA PALEA	14.00

APPENDIX D-10-2 (Continued)

SITE = 14 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHLOROPHYTA	
CLADOPHORA SPP	45.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	247.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA AMPHICEPHALA	68.00
SYNEDRA TENERA	90.00
SYNEDRA ULNA	.20
ACHNANTHES MINUTISSIMA	530.00
NAVICULA CRYPTOCEPHALA	90.00
NAVICULA SP 2	22.00
CYMBELLA AFFINIS	4140.00
CYMBELLA MICROCEPHALA	247.00
CYMBELLA VENTRICOSA	247.00
GOMPHONEMA INTRICATUM	45.00
NITZSCHIA DENTICULA	2070.00

APPENDIX D-10-2 (Continued)

SITE = 14 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	90.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	292.00
SYNEDRA TENERA	68.00
ACHNANTHES LANCEOLATA	45.00
ACHNANTHES MINUTISSIMA	1902.00
NAVICULA CRYPTOCEPHALA	135.00
NAVICULA SP 1	68.00
CYMBELLA AFFINIS	4298.00
CYMBELLA MICROCEPHALA	68.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA OLIVACEUM	45.00
NITZSCHIA DENTICULA	1718.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA PALEA	45.00

APPENDIX D-10-2 (Continued)

SITE = 17 REP = 1

TAXON	DENSITY (CELLS/SQUARE **
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	6.00
SYNEDRA ULNA	.03
ACHNANTHES LANCEOLATA	4.00
ACHNANTHES MINUTISSIMA	11.00
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA MUTICA	4.00
NAVICULA PELLICULOSA	19.00
NAVICULA VIRIDULA	16.00
NAVICULA SP 1	73.00
NAVICULA SP 2	14.00
CALONEIS VENTRICOSA	9.00
CYMBELLA AFFINIS	2.00
CYMBELLA VENTRICOSA	2.00
HANTZSCHIA AMPHIOXYS	2.00
NITZSCHIA ACICULARIS	4.00
NITZSCHIA CAPITELLATA	20.00
NITZSCHIA DENTICULA	18.00
NITZSCHIA FRUSTULUM	88.00
NITZSCHIA PULSATICA	11.00
NITZSCHIA PALEA	56.00

APPENDIX D-10-2 (Continued)

SITE = 19 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHLOROPHYTA	
CLADOPHORA SPP	.45
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
SYNEDRA PULCHELLA	17.00
ACHNANTHES MINUTISSIMA	4247.00
GYROSIGMA ACUMINATUM	.05
NAVICULA ARVENSIS	6.00
NAVICULA CRYPTOCEPHALA	6.00
NAVICULA PELLICULOSA	6.00
NAVICULA VIRIDULA	28.00
CYMBELLA AFFINIS	6.00
CYMBELLA VENTRICOSA	62.00
NITZSCHIA FONTICOLA	45.00
NITZSCHIA FRUSTULUM	17.00
NITZSCHIA GRACILIS	6.00
NITZSCHIA PALEA	56.00

APPENDIX D-10-2 (Continued)

SITE = 19 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	27.00
CHRYSOPHYTA	
SYNEDRA PULCHELLA	9.00
ACHNANTHES MINUTISSIMA	2407.00
NAVICULA ARVENSIS	9.00
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA VIRIDULA	27.00
CALONEIS BACILLUM	4.00
CYMBELLA VENTRICOSA	32.00
GOMPHONEMA CLIVACEUM	9.00
GOMPHONEMA PARVULUM	50.00
AMPHIPRORA ALATA	4.00
NITZSCHIA FONTICOLA	45.00
NITZSCHIA FRUSTULUM	94.00
NITZSCHIA HOLSATICA	40.00
NITZSCHIA PALEA	67.00

APPENDIX D-10-2 (Continued)

SITE = 19 KEP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	11.00
CYCLOTELLA MENEGHINIANA	6.00
SYNEDRA PULCHELLA	6.00
SYNEDRA TENERA	951.00
ACHNANTHES MINUTISSIMA	.60
GYROSIGMA ACUMINATUM	6.00
NAVICULA CRYPTOCEPHALA	17.00
NAVICULA VIRIDULA	6.00
NAVICULA SP 1	6.00
AMPHORA OVALIS VAR. PEDICULUS	62.00
CYMBELLA VENTRICOSA	28.00
EPITHEMIA SOREX	67.00
NITZSCHIA FONTICOLA	22.00
NITZSCHIA FRUSTULUM	6.00
NITZSCHIA MICROCEPHALA	67.00
NITZSCHIA PALEA	

APPENDIX D-10-2 (Continued)

SITE = 20 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHLOROPHYTA	
CLADOPHORA SPP	.20
CHRYSOPHYTA	
SYNEDRA PULCHELLA	3.00
ACHNANTHES MINUTISSIMA	1174.00
GYROSIGMA ACUMINATUM	.02
NAVICULA CRYPTOCEPHALA	20.00
CYMBELLA VENTRICOSA	10.00
GOMPHONEMA PARVULUM	3.00
NITZSCHIA FONTICOLA	7.00
NITZSCHIA FRUSTULUM	40.00
NITZSCHIA HOLSATICA	7.00
NITZSCHIA PALEA	51.00
SURIRELLA OVALIS	.02

APPENDIX D-10-2 (Continued)

SITE = 20 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	10.00
CALOTHRIX SPP	3.00
CHRYSOPHYTA	
SYNEDRA PULCHELLA	3.00
ACHNANTHES MINUTISSIMA	1637.00
GYROSIGMA ACUMINATUM	.03
NAVICULA VIRIDULA	56.00
CYMBELLA VENTRICOSA	30.00
RHOPALODIA GIBBERULA	3.00
NITZSCHIA FONTICOLA	30.00
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA MICROCEPHALA	3.00
NITZSCHIA PALEA	11.00
SURIRELLA OVATA	3.00

APPENDIX D-10-2 (Continued)

SITE = 20 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
CALOTHRIX SPP	24.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	10.00
SYNEDRA PULCHELLA	7.00
ACHNANTHES MINUTISSIMA	584.00
GYROSIGMA ACUMINATUM	.12
NAVICULA CRYPTOCEPHALA	17.00
NAVICULA VIRIDULA	10.00
CYMBELLA VENTRICOSA	44.00
GOMPHONEMA INTRICATUM	7.00
NITZSCHIA FONTICOLA	24.00
NITZSCHIA FRUSTULUM	17.00
NITZSCHIA PALEA	64.00

APPENDIX D-10-2 (Continued)

SITE = 21 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
CALOTHRIX SPP	3.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	20.00
SYNEDRA PULCHELLA	10.00
ACHNANTHES MINUTISSIMA	432.00
GYROSIGMA ACUMINATUM	.30
NAVICULA CRYPTOCEPHALA	3.00
NAVICULA VIRIDULA	40.00
CYMBELLA AFFINIS	3.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA INTRICATUM	20.00
NITZSCHIA CAPITELLATA	7.00
NITZSCHIA FONTICOLA	3.00
NITZSCHIA FRUSTULUM	30.00
NITZSCHIA HOLSATICA	10.00
NITZSCHIA LATENS	78.00
NITZSCHIA VERMICULARIS	.06

APPENDIX D-10-2 (Continued)

SITE = 21 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
CALOTHRIX SPP	27.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	40.00
SYNEDRA PULCHELLA	14.00
ACHNANTHES MINUTISSIMA	290.00
GYROSIGMA ACUMINATUM	.12
NAVICULA ARVENSIS	7.00
NAVICULA CRYPTOCEPHALA	27.00
NAVICULA MUTICA	7.00
NAVICULA VIRIDULA	7.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA INTRICATUM	7.00
NITZSCHIA CAPITELLATA	14.00
NITZSCHIA FONTICOLA	7.00
NITZSCHIA FRUSTULUM	34.00
NITZSCHIA LATENS	223.00

APPENDIX D-10-2 · (Continued)

SITE = 21 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	50.00
CHLOROPHYTA	
CLADOPHORA SPP	9.00
SPIROGYRA SPP	1.32
CHRYSOPHYTA	
SYNEDRA MINUSCULA	4.00
SYNEDRA PULCHELLA	4.00
ACHNANTHES MINUTISSIMA	1238.00
GYROSIGMA ACUMINATUM	.08
NAVICULA CRYPTOCEPHALA	4.00
NAVICULA SP 1	4.00
CYMBELLA VENTRICOSA	4.00
GOMPHONEMA INTRICATUM	90.00
AMPHIPRORA ALATA	.04
NITZSCHIA FRUSTULUM	229.00
NITZSCHIA HOLSATICA	45.00
NITZSCHIA LATENS	50.00

APPENDIX D-10-2 (Continued)

SITE = 21 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	4.00
NITZSCHIA MICROCEPHALA	

APPENDIX D-10-2 (Continued)

SITE = 22 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA PULCHELLA	.44
ACHNANTHES MINUTISSIMA	302.00
GYROSIGMA ACUMINATUM	.08
PLEUROSIGMA DELICATULUM	.04
NAVICULA CRYPTOCEPHALA	9.00
NAVICULA VIRIDULA	27.00
CYMBELLA AFFINIS	4.00
CYMBELLA VENTRICOSA	22.00
NITZSCHIA APICULATA	4.00
NITZSCHIA FONTICOLA	738.00
NITZSCHIA FRUSTULUM	117.00
NITZSCHIA HOLSATICA	108.00
NITZSCHIA HUNGARICA	4.00
NITZSCHIA PALEA	63.00

APPENDIX D-10-2 (Continued)

SITE = 22 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
ACHNANTHES MINUTISSIMA	1687.00
GYROSIGMA ACUMINATUM	2.00
PLEUROSIGMA DELICATULUM	1.00
NAVICULA CRYPTOCEPHALA	158.00
NAVICULA VIRIDULA	45.00
CYMBELLA VENTRICOSA	112.00
GOMPHONEMA INTRICATUM	22.00
NITZSCHIA CAPITELLATA	45.00
NITZSCHIA FRUSTULUM	562.00
NITZSCHIA HOLSATICA	90.00
NITZSCHIA PALEA	900.00
SURIRELLA OVATA	22.00

APPENDIX D-10-2 (Continued)

SITE = 22 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	237.00
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	857.00
GYROSIGMA ACUMINATUM	.45
NAVICULA ARVENSIS	17.00
NAVICULA CRYPTOCEPHALA	84.00
NAVICULA PELLICULOSA	17.00
NAVICULA SP 1	34.00
CYMBELLA VENTRICOSA	64.00
GOMPHONEMA INTRICATUM	152.00
NITZSCHIA FRUSTULUM	1233.00
NITZSCHIA HOLSATICA	135.00
NITZSCHIA HUNGARICA	17.00
NITZSCHIA PALEA	135.00
NITZSCHIA VERMICULARIS	.45
SURIRELLA OVALIS	.15

APPENDIX D-10-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	743.00
CALOTHRIX SPP	202.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	68.00
FRAGILARIA VAUCHERIAE	270.00
SYNEDRA DELICATISSIMA	135.00
ACHNANTHES MINUTISSIMA	68.00
GYROSIGMA ACUMINATUM	68.00
NAVICULA CRYPTOCEPHALA	810.00
NAVICULA SALINARUM VAR. INTERMEDIA	1755.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VIRIDULA	135.00
NAVICULA SP 2	68.00
CALONEIS AMPHISBAENA	.60
CYMBELLA AFFINIS	472.00
CYMBELLA MEXICANA	.60
GOMPHONEMA INTRICATUM	135.00
GOMPHONEMA OLIVACEUM	675.00

APPENDIX D-10-2 (Continued)

SITE = 23 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	472.00
EPITHEMIA SOREX	28.00
RHOPALODIA GIBBA	405.00
NITZSCHIA DISSIPATA	2565.00
NITZSCHIA FRUSTULUM	2160.00
NITZSCHIA LINEARIS	.60
NITZSCHIA PALEA	68.00

APPENDIX D-10-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	506.00
CALOTHRIX SPP	135.00
CHLOROPHYTA	
CLADOPHORA SPP	101.00
CHRYSOPHYTA	
DIATOMA VULGARE	34.00
SYNEDRA DELICATISSIMA	135.00
ACHNANTHES MINUTISSIMA	68.00
NAVICULA CRYPTOCEPHALA	641.00
NAVICULA SALINARUM VAR. INTERMEDIA	202.00
NAVICULA TRIPUNCTATA	34.00
NAVICULA VIRIDULA	34.00
CALONEIS AMPHISBAENA	.30
AMPHORA OVALIS VAR. PEDICULUS	101.00
CYMBELLA AFFINIS	34.00
CYMBELLA MEXICANA	.30
CYMBELLA SINUATA	68.00

APPENDIX D-10-2 (Continued)

SITE = 23 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	68.00
GOMPHONEMA VENTRICOSUM	34.00
EPITHEMIA SOREX	645.00
RHOPALODIA GIBBA	68.00
NITZSCHIA CHASEI	34.00
NITZSCHIA DISSIPATA	1552.00
NITZSCHIA FRUSTULUM	911.00
NITZSCHIA HOLSATICA	135.00

APPENDIX D-10-2 (Continued)

SITE = 23 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1620.00
CALOTHRIX SPP	34.00
CHRYSOPHYTA	
DIATOMA VULGARE	101.00
FRAGILARIA VAUCHERIAE	34.00
SYNEDRA DELICATISSIMA	34.00
COCCONEIS PLACENTULA	34.00
ACHNANTHES MINUTISSIMA	63.00
GYROSIGMA ACUMINATUM	.60
PLEUROSIGMA DELICATULUM	.60
NAVICULA CRYPTOCEPHALA	945.00
NAVICULA SALINARUM VAR. INTERMEDIA	1012.00
NAVICULA TRIPUNCTATA	135.00
CALONEIS AMPHISBAENA	.90
AMPHORA OVALIS VAR. PEDICULUS	101.00
CYMBELLA AFFINIS	68.00
CYMBELLA MEXICANA	.90
CYMBELLA VENTRICOSA	101.00
GOMPHONEMA INTRICATUM	68.00

APPENDIX D-10-2 (Continued)

SITE = 23 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	34.00
GOMPHONEMA VENTRICOSUM	202.00
GOMPHONEMA SP 1	34.00
EPITHEMIA SOREX	9271.00
EPITHEMIA ZEBRA	34.00
RHOPALODIA GIBBA	135.00
NITZSCHIA CHASEI	169.00
NITZSCHIA DISSIPATA	1384.00
NITZSCHIA FRUSTULUM	1451.00
NITZSCHIA HOLSATICA	55.00
NITZSCHIA PALEA	34.00
SURIRELLA OVATA	34.00

APPENDIX D-10-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1485.00
ANABAENA SPP	135.00
CALOTHRIX SPP	135.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	68.00
DIATOMA VULGARE	68.00
SYNEDRA DELICATISSIMA	5.00
SYNEDRA ULNA	68.00
COCCONEIS PEDICULUS	135.00
ACHNANTHES MINUTISSIMA	135.00
GYROSIGMA ACUMINATUM	.60
NAVICULA CRYPTOCEPHALA	1688.00
NAVICULA PELLICULOSA	135.00
NAVICULA SALINARUM VAR. INTERMEDIA	1012.00
NAVICULA TANTULA	135.00
NAVICULA TRIPUNCTATA	472.00
NAVICULA VAUCHERIAE	68.00
CALONEIS BACILLUM	68.00
AMPHORA OVALIS VAR. PEDICULUS	1282.00

APPENDIX D-10-2 (Continued)

SITE = 24 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA AFFINIS	338.00
CYMBELLA MEXICANA	68.00
CYMBELLA SINUATA	68.00
CYMBELLA VENTRICOSA	202.00
GOMPHONEMA OLIVACEUM	336.00
GOMPHONEMA VENTRICOSUM	68.00
EPITHEMIA SOREX	1870.00
RHOPALODIA GIBBA	338.00
NITZSCHIA APICULATA	68.00
NITZSCHIA CHASEI	1822.00
NITZSCHIA DISSIPATA	2632.00
NITZSCHIA FRUSTULUM	1262.00
NITZSCHIA HOLSATICA	338.00
NITZSCHIA PALEA	68.00

APPENDIX D-10-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	270.00
CHLOROPHYTA	
CLADOPHORA SPP	202.00
CHRYSOPHYTA	
DIATOMA VULGARE	58.00
SYNEDRA ULNA	135
COCCONEIS PLACENTULA	135.00
ACHNANTHES MINUTISSIMA	270.00
GYROSIGMA ACUMINATUM	.60
NAVICULA CRYPTOCEPHALA	1435.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. INTERMEDIA	1148.00
NAVICULA TRIPUNCTATA	540.00
NAVICULA VAUCHERIAE	65.00
NAVICULA VIRIDULA	68.00
NAVICULA SP 1	68.00
AMPHORA OVALIS VAR. PEDICULUS	3240.00

APPENDIX D-10-2 (Continued)

SITE = 24 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA AFFINIS	135.00
CYMBELLA MEXICANA	3.00
CYMBELLA SINUATA	68.00
CYMBELLA VENTRICOSA	135.00
GOMPHONEMA INTRICATUM	68.00
GOMPHONEMA OLIVACEUM	202.00
GOMPHONEMA VENTRICOSUM	68.00
EPITHEMIA SOREX	5592.00
RHOPALODIA GIBBA	135.00
NITZSCHIA CHASEI	1148.00
NITZSCHIA DISSIPATA	4185.00
NITZSCHIA FONTICOLA	68.00
NITZSCHIA FRUSTULUM	472.00
NITZSCHIA GRACILIS	68.00
NITZSCHIA HOLSATICA	135.00
NITZSCHIA PALEA	68.00

APPENDIX D-10-2 (Continued)

SITE = 24 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1620.00
CALOTHRIX SPP	877.00
CHLOROPHYTA	
CLADOPHORA SPP	68.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	270.00
SYNEDRA DELICATISSIMA	68.00
COCCONEIS PEDICULUS	68.00
ACHNANTHES MINUTISSIMA	68.00
GYROSIGMA ACUMINATUM	1.20
NAVICULA CRYPTOCEPHALA	1822.00
NAVICULA SALINARUM VAR. INTERMEDIA	540.00
NAVICULA TRIPUNCTATA	472.00
NAVICULA VIRIDULA	68.00
CALONEIS AMPHISBAENA	.60
AMPHORA OVALIS VAR. PEDICULUS	5670.00
CYMBELLA AFFINIS	540.00

APPENDIX D-10-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	573.00
CALOTHRIX SPP	101.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	[illegible]
DIATOMA VULGARE	34.00
FRAGILARIA CONSTRUENS	202.00
FRAGILARIA VAUCHERIAE	101.00
SYNEDRA DELICATISSIMA	68.00
SYNEDRA ULNA	68.00
ACHNANTHES MINUTISSIMA	135.00
NAVICULA CRYPTOCEPHALA	506.00
NAVICULA PELLICULOSA	34.00
NAVICULA SALINARUM VAR. INTERMEDIA	270.00
NAVICULA VIRIDULA	68.00
AMPHORA OVALIS VAR. PEDICULUS	101.00
CYMBELLA AFFINIS	202.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA VENTRICOSUM	169.00
GOMPHONEMA SP 1	34.00

APPENDIX D-10-2 (Continued)

SITE = 25 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA SOREX	790.00
RHOPALODIA GIBBA	9.00
NITZSCHIA CHASEI	202.00
NITZSCHIA DISSIPATA	675.00
NITZSCHIA FRUSTULUM	573.00
NITZSCHIA GRACILIS	34.00
NITZSCHIA LINEARIS	.30
NITZSCHIA PALEA	135.00
SURIRELLA OVATA	[illegible]

APPENDIX D-10-2 (Continued)

SITE = 25 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	2768.00
CHRYSOPHYTA	
ACHNANTHES MINUTISSIMA	135.00
NAVICULA CRYPTOCEPHALA	405.00
NAVICULA SALINARUM VAR. INTERMEDIA	945.00
NAVICULA VIRIDULA	68.00
AMPHORA OVALIS VAR. PEDICULUS	135.00
CYMBELLA AFFINIS	1012.00
CYMBELLA MEXICANA	1.00
GOMPHONEMA VENTRICOSUM	135.00
EPITHEMIA SOREX	1657.00
RHOPALODIA GIBBA	9.00
NITZSCHIA CHASEI	270.00
NITZSCHIA DISSIPATA	1417.00
NITZSCHIA FRUSTULUM	1012.00
NITZSCHIA GRACILIS	135.00
NITZSCHIA PALEA	472.00

APPENDIX D-1C-2 (Continued)

SITE = 25 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1856.00
CHLOROPHYTA	
CLADOPHORA SPP	101.00
CHRYSOPHYTA	
DIATOMA VULGARE	169.00
FRAGILARIA VAUCHERIAE	135.00
SYNEDRA ULNA	68.00
ACHNANTHES MINUTISSIMA	202.00
NAVICULA CRYPTOCEPHALA	169.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. INTERMEDIA	742.00
NAVICULA TRIPUNCTATA	68.00
CYMBELLA AFFINIS	34.00
CYMBELLA VENTRICOSA	202.00
GOMPHONEMA INTRICATUM	34.00
GOMPHONEMA OLIVACEUM	101.00
GOMPHONEMA VENTRICOSUM	405.00

APPENDIX D-10-2 (Continued)

SITE = 25 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	9936.00
EPITHEMIA SOREX	34.00
EPITHEMIA ZEBRA	9.00
RHOPALODIA GIBBA	34.00
NITZSCHIA CAPSEI	810.00
NITZSCHIA DISSIPATA	169.00
NITZSCHIA FONTICOLA	1282.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA HOLSATICA	202.00
NITZSCHIA PALEA	

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	236.00
CHRYSOPHYTA	
DIATOMA VULGARE	135.00
FRAGILARIA LEPT. STAURON	34.00
FRAGILARIA PINNATA	101.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA DELICATISSIMA	202.00
ACHNANTHES MINUTISSIMA	101.00
GYROSIGMA ACUMINATUM	68.00
PLEUROSIGMA DELICATULUM	1.00
NAVICULA CRYPTOCEPHALA	1552.00
NAVICULA SALINARUM VAR. INTERMEDIA	2396.00
NAVICULA TANTULA	34.00
NAVICULA TRIPUNCTATA	608.00
NAVICULA VIRIDULA	270.00
NAVICULA SP 2	34.00
CALONEIS AMPHISBAENA	.20
AMPHORA OVALIS VAR. PEDICULUS	337.00
CYMBELLA AFFINIS	68.00

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA MEXICANA	2.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA INTRICATUM	68.00
GOMPHONEMA OLIVACEUM	68.00
GOMPHONEMA VENTRICOSUM	337.00
EPITHEMIA SOREX	3466.00
RHOPALODIA GIBBA	236.00
NITZSCHIA CHASEI	304.00
NITZSCHIA DISSIPATA	2464.00
NITZSCHIA FONTICULA	34.00
NITZSCHIA FRUSTULUM	608.00
NITZSCHIA GRACILIS	68.00
NITZSCHIA HOLSATICA	68.00
NITZSCHIA PALEA	202.00
NITZSCHIA SIGMOIDEA	.30

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	270.00
CHRYSOPHYTA	
DIATOMA VULGARE	68.00
FRAGILARIA PINNATA	270.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA ULNA	202.00
COCCONEIS PEDICULUS	68.00
COCCONEIS PLACENTULA	202.00
GYROSIGMA ACUMINATUM	68.00
NAVICULA CRYPTOCEPHALA	3307.00
NAVICULA SALINARUM VAR. INTERMEDIA	2700.00
NAVICULA TRIPUNCTATA	675.00
NAVICULA VIRIDULA	270.00
CALONEIS AMPHISBAENA	1.00
CALONEIS VENTRICOSA	68.00
AMPHORA OVALIS VAR. PEDICULUS	1417.00
CYMBELLA AFFINIS	405.00
CYMBELLA MEXICANA	3.00
CYMBELLA VENTRICOSA	135.00

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 2.

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	607.00
EPITHEMIA SOREX	6470.00
RHOPALODIA GIBBA	338.00
NITZSCHIA CAPITELLATA	68.00
NITZSCHIA CHASEI	1350.00
NITZSCHIA DISSIPATA	3780.00
NITZSCHIA FRUSTULUM	607.00
NITZSCHIA HUNGARICA	68.00
NITZSCHIA LINEARIS	68.00
NITZSCHIA PALEA	675.00
NITZSCHIA SIGMOIDEA	1.00
NITZSCHIA VERMICULARIS	68.00

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	337.00
CHRYSOPHYTA	
DIATOMA VULGARE	135.00
FRAGILARIA PINNATA	34.00
FRAGILARIA VAUCHERIAE	34.00
SYNEDRA ULNA	135.00
ACHNANTHES LANCEOLATA	68.00
ACHNANTHES MINUTISSIMA	68.00
GYROSIGMA ACUMINATUM	34.00
PLEUROSIGMA DELICATULUM	.30
NAVICULA CRYPTOCEPHALA	2025.00
NAVICULA MUTICA	34.00
NAVICULA SALINARUM VAR. INTERMEDIA	1485.00
NAVICULA TANTULA	34.00
NAVICULA TRIPUNCTATA	472.00
NAVICULA VAUCHERIAE	34.00
NAVICULA VIRIDULA	68.00
NAVICULA SP 1	34.00
AMPHORA OVALIS VAR. PEDICULUS	1148.00

APPENDIX 0-2 (Continued)

SITE = 26 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA AFFINIS	337.00
CYMBELLA MEXICANA	.30
CYMBELLA VENTRICOSA	53.00
GOMPHONEMA INTRICATUM	53.00
GOMPHONEMA OLIVACEUM	135.00
GOMPHONEMA VENTRICOSUM	53.00
EPITHEMIA SOREX	3152.00
RHOPALODIA GIBBA	159.00
NITZSCHIA CHASEI	1520.00
NITZSCHIA DISSIPATA	[illegible]
NITZSCHIA FRUSTULUM	[illegible]
NITZSCHIA HOLSATICA	34.00
NITZSCHIA PALEA	55.00
CYMATOPLEURA SOLEA	.30

APPENDIX D-10-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	135.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
STEPHANODISCUS ASTRAEA	68.00
DIATOMA VULGARE	405.00
FRAGILARIA LEPTOSTAURON	135.00
SYNEDRA DELICATISSIMA	1.80
SYNEDRA ULNA	135.00
COCCONEIS PEDICULUS	68.00
COCCONEIS PLACENTULA	810.00
ACHNANTHES MINUTISSIMA	68.00
GYROSIGMA ACUMINATUM	1.80
PLEUROSIGMA DELICATULUM	.60
NAVICULA CRYPTOCEPHALA	2025.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	1148.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	540.00
NAVICULA VIRIDULA	202.00
AMPHORA OVALIS VAR. *PEDICULUS*	2363.00

APPENDIX D-10-2 (Continued)

SITE = 27 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	405.00
CYMBELLA AFFINIS	68.00
CYMBELLA SINUATA	68.00
CYMBELLA VENTRICOSA	338.00
GOMPHONEMA VENTRICOSUM	68.00
GOMPHONEMA SP 1	68.00
EPITHEMIA SOREX	135.00
RHOPALODIA GIBBA	68.00
NITZSCHIA APICULATA	743.00
NITZSCHIA CHASEI	3038.00
NITZSCHIA DISSIPATA	2633.00
NITZSCHIA FRUSTULUM	135.00
NITZSCHIA GRACILIS	607.00
NITZSCHIA HOLSATICA	202.00
NITZSCHIA PALEA	2.40
NITZSCHIA SIGMOIDEA	68.00
NITZSCHIA VERMICULARIS	1.20
CYMATOPLEURA SOLEA	

APPENDIX D-10-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1350.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
MELOSIRA VARIANS	3.00
CYCLOTELLA MENEGHINIANA	68.00
DIATOMA VULGARE	1148.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA DELICATISSIMA	9.80
SYNEDRA MINUSCULA	135.00
SYNEDRA ULNA	5.40
COCCONEIS PLACENTULA	135.00
ACHNANTHES LANCEOLATA	68.00
ACHNANTHES MINUTISSIMA	472.00
PLEUROSIGMA DELICATULUM	2.40
NAVICULA ARVENSIS	68.00
NAVICULA CRYPTOCEPHALA	2295.00
NAVICULA CUSPIDATA	.60
NAVICULA SALINARUM VAR. INTERMEDIA	1485.00
NAVICULA TRIPUNCTATA	675.00

APPENDIX D-10-2 (Continued)

SITE = 27 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	202.00
NAVICULA VIRIDULA	3105.00
AMPHORA OVALIS VAR. *PEDICULUS*	472.00
CYMBELLA AFFINIS	2.40
CYMBELLA MEXICANA	135.00
CYMBELLA VENTRICOSA	135.00
GOMPHONEMA INTRICATUM	405.00
GOMPHONEMA OLIVACEUM	2228.00
GOMPHONEMA VENTRICOSUM	9355
EPITHEMIA SOREX	135.00
RHOPALODIA GIBBA	135.00
NITZSCHIA AMPHIBIA	675.00
NITZSCHIA CHASEI	2700.00
NITZSCHIA DISSIPATA	2498.00
NITZSCHIA FRUSTULUM	472.00
NITZSCHIA HOLSATICA	141[illegible].00
NITZSCHIA PALEA	.50
NITZSCHIA SIGMOIDEA	.50
NITZSCHIA VERMICULARIS	.50
CYMATOPLEURA SOLEA	

APPENDIX D-10-2 (Continued)

SITE = 27 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	607.00
CHLOROPHYTA	
CLADOPHORA SPP	202.00
CHRYSOPHYTA	
DIATOMA VULGARE	743.00
SYNEDRA DELICATISSIMA	6.50
SYNEDRA ULNA	68.00
ACHNANTHES LANCEOLATA	68.00
ACHNANTHES MINUTISSIMA	270.00
GYROSIGMA ACUMINATUM	68.00
PLEUROSIGMA DELICATULUM	.50
NAVICULA CRYPTOCEPHALA	2228.00
NAVICULA SALINARUM	1350.00
NAVICULA TRIPUNCTATA	540.00
NAVICULA VIRIDULA	202.00
AMPHORA OVALIS VAR. PEDICULUS	2160.00
CYMBELLA AFFINIS	338.00

APPENDIX D-10-2 (Continued)

SITE = 27 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1.80
CYMBELLA MEXICANA	270.00
CYMBELLA VENTRICOSA	270.00
GOMPHONEMA OLIVACEUM	678.00
GOMPHONEMA VENTRICOSUM	1408.00
EPITHEMIA SOREX	68.00
RHOPALODIA GIBBA	68.00
HANTZSCHIA AMPHIOXYS	1012.00
NITZSCHIA CHASEI	2363.00
NITZSCHIA DISSIPATA	1215.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA GRACILIS	202.00
NITZSCHIA HOLSATICA	135.00
NITZSCHIA PALEA	.60
NITZSCHIA VERMICULARIS	

APPENDIX D-10-2 (Continued)

SITE = 28 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	4320.00
CALOTHRIX SPP	45.[illegible]
CHRYSOPHYTA	
EICLECA LACUSTRIS	552.[illegible]
DIATOMA VULGARE	22.00
FRAGILARIA PINNATA	22.00
SYNEDRA DELICATISSIMA	[illegible]
GYROSIGMA ACUMINATUM	[illegible]
NAVICULA CRYPTOCEPHALA	292.00
NAVICULA SALINARUM VAR. INTERMEDIA	472.00
NAVICULA TANTULA	202.00
NAVICULA TRIPUNCTATA	112.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	22.00
CALONEIS AMPHISBAENA	.80
AMPHORA OVALIS VAR. PEDICULUS	1053.00
CYMBELLA MEXICANA	.20
CYMBELLA SINUATA	22.00
CYMBELLA VENTRICOSA	45.00

APPENDIX D-10-2 (Continued)

SITE = 28 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA OLIVACEUM	135.00
EPITHEMIA SOREX	1058.00
RHOPALODIA GIBBA	1.20
NITZSCHIA CHASEI	22.00
NITZSCHIA DISSIPATA	562.00
NITZSCHIA FRUSTULUM	225.00
NITZSCHIA GRACILIS	22.00
NITZSCHIA SIGMOIDEA	.20

APPENDIX D-10-2 (Continued)

SITE = 28 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	[illegible]
CHRYSOPHYTA	
DIATOMA VULGARE	[illegible]
SYNEDRA DELICATISSIMA	[illegible]
GYROSIGMA ACUMINATUM	22.00
PLEUROSIGMA DELICATULUM	.20
NAVICULA CRYPTOCEPHALA	[illegible]
NAVICULA PUPULA	[illegible]
NAVICULA SALINARUM VAR. INTERMEDIA	785.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	45.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	112.00
CALONEIS AMPHISBAENA	.30
AMPHORA OVALIS VAR. PEDICULUS	450.00
CYMBELLA AFFINIS	22.00
CYMBELLA MEXICANA	.40
CYMBELLA SINUATA	68.00
CYMBELLA VENTRICOSA	45.00

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1262.00
EPITHEMIA SOREX	22.00
RHOPALODIA GIBBA	90.00
NITZSCHIA CHASEI	513.00
NITZSCHIA DISSIPATA	513.00
NITZSCHIA FRUSTULUM	22.00
NITZSCHIA GRACILIS	112.00
NITZSCHIA PALEA	.00
CYMATOPLEURA SOLEA	

APPENDIX D-10-2 (Continued)

SITE = 2S REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1654.00
CALOTHRIX SPP	34.00
CHRYSOPHYTA	
BICOECA LACUSTRIS	101.00
SYNEDRA ULNA	.30
ACHNANTHES MINUTISSIMA	169.00
GYROSIGMA ACUMINATUM	1.20
NAVICULA CRYPTOCEPHALA	270.00
NAVICULA SALINARUM VAR. INTERMEDIA	608.00
NAVICULA TANTULA	34.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VAUCHERIAE	34.00
CALONEIS AMPHISBAENA	.90
AMPHORA OVALIS VAR. PEDICULUS	540.00
CYMBELLA AFFINIS	34.00
CYMBELLA SINUATA	34.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA OLIVACEUM	68.00
GOMPHONEMA VENTRICOSUM	169.00

APPENDIX D-10-2 (Continued)

SITE = 26 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA SOREX	1012.00
RHOPALODIA GIBBA	2.10
NITZSCHIA DISSIPATA	1046.00
NITZSCHIA FRUSTULUM	438.00
NITZSCHIA GRACILIS	68.00
NITZSCHIA PALEA	58.00
NITZSCHIA VERMICULARIS	.30
CYMATOPLEURA SOLEA	.60
SURIRELLA ANGUSTATA	34.00
SURIRELLA OVATA	68.00

APPENDIX D-10-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	540.00
CHRYSOPHYTA	
SYNEDRA DELICATISSIMA	.60
SYNEDRA ULNA	.30
COCCONEIS PLACENTULA	34.00
NAVICULA CRYPTOCEPHALA	641.00
NAVICULA PELLICULOSA	101.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	675.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VIRIDULA	101.00
CALONEIS AMPHISBAENA	1.80
AMPHORA OVALIS VAR. *PEDICULUS*	135.00
CYMBELLA AFFINIS	68.00
CYMBELLA MEXICANA	.90
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA OLIVACEUM	34.00
GOMPHONEMA VENTRICOSUM	169.00
EPITHEMIA SOREX	5265.00
RHOPALODIA GIBBA	40.60

APPENDIX D-10-2 (Continued)

SITE = 29 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	1249.00
NITZSCHIA FRUSTULUM	371.00
NITZSCHIA HOLSATICA	135.00
CYMATOPLEURA SOLEA	.30

APPENDIX D-10-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1530.00
CALOTHRIX SPP	22.00
CHRYSOPHYTA	
DIATOMA VULGARE	22.00
FRAGILARIA LEPTOSTAURON	22.00
FRAGILARIA PINNATA	45.00
SYNEDRA DELICATISSIMA	22.00
COCCONEIS PLACENTULA	22.00
ACHNANTHES MINUTISSIMA	45.00
GYROSIGMA ACUMINATUM	22.00
NAVICULA CRYPTOCEPHALA	405.00
NAVICULA SALINARUM VAR. INTERMEDIA	765.00
NAVICULA SUBHAMULATA	22.00
NAVICULA TRIPUNCTATA	130.00
NAVICULA VAUCHERIAE	45.00
NAVICULA VIRIDULA	45.00
CALONEIS AMPHISBAENA	1.00
CALONEIS BACILLUM	22.00
AMPHORA OVALIS VAR. PEDICULUS	151.00

APPENDIX D-10-2 (Continued)

SITE = 29 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYMBELLA AFFINIS	68.00
CYMBELLA MEXICANA	.40
CYMBELLA SINUATA	22.00
GOMPHONEMA INTRICATUM	45.00
GOMPHONEMA OLIVACEUM	180.00
EPITHEMIA SOREX	2002.00
RHOPALODIA GIBBA	45.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	382.00
NITZSCHIA FRUSTULUM	315.00
NITZSCHIA GRACILIS	22.00
NITZSCHIA HOLSATICA	22.00
NITZSCHIA PALEA	90.00
NITZSCHIA SIGMOIDEA	.40
SURIRELLA OVATA	22.00
SURIRELLA OVALIS	.20

APPENDIX D-10-2 (Continued)

SITE = 29 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	315.00
CALOTHRIX SPP	202.00
CHRYSOPHYTA	
SYNEDRA DELICATISSIMA	3.20
ACHNANTHES MINUTISSIMA	22.00
GYROSIGMA ACUMINATUM	.20
PLEUROSIGMA DELICATULUM	.20
NAVICULA CRYPTOCEPHALA	382.00
NAVICULA SALINARUM VAR. INTERMEDIA	697.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VIRIDULA	45.00
AMPHORA OVALIS VAR. PEDICULUS	68.00
CYMBELLA AFFINIS	180.00
CYMBELLA SINUATA	90.00
CYMBELLA VENTRICOSA	90.00
GOMPHONEMA OLIVACEUM	22.00
GOMPHONEMA VENTRICOSUM	112.00
EPITHEMIA SOREX	3973.00
RHOPALODIA GIBBA	90.00

APPENDIX D-10-2 (Continued)

SITE = 29 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CHASEI	22.00
NITZSCHIA DISSIPATA	535.00
NITZSCHIA FRUSTULUM	540.00
NITZSCHIA GRACILIS	90.00
NITZSCHIA HOLSATICA	45.00
NITZSCHIA PALEA	90.00

APPENDIX D-10-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	472.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
DIATOMA VULGARE	202.00
FRAGILARIA VAUCHERIAE	270.00
SYNEDRA DELICATISSIMA	134.00
PLEUROSIGMA DELICATULUM	2.40
DIPLONEIS OCULATA	68.00
NAVICULA CRYPTOCEPHALA	810.00
NAVICULA SALINARUM VAR. INTERMEDIA	1146.00
NAVICULA TRIPUNCTATA	66.00
CALONEIS BACILLUM	68.00
AMPHORA OVALIS VAR. PEDICULUS	63.00
CYMBELLA AFFINIS	607.00
CYMBELLA MEXICANA	.60
CYMBELLA VENTRICOSA	270.00
GOMPHONEMA OLIVACEUM	270.00
GOMPHONEMA VENTRICOSUM	405.00
EPITHEMIA SOREX	7878.00

APPENDIX D-10-2 (Continued)

SITE = 30 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	49.20
RHOPALODIA GIBBA	68.00
NITZSCHIA CHASEI	3375.00
NITZSCHIA DISSIPATA	1553.00
NITZSCHIA FRUSTULUM	270.00
NITZSCHIA GRACILIS	270.00
NITZSCHIA PALEA	68.00
SURIRELLA OVATA	

APPENDIX D-10-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	68.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	68.00
DIATOMA VULGARE	[illegible]
FRAGILARIA CONSTRUENS	68.00
FRAGILARIA VAUCHERIAE	68.00
SYNEDRA DELICATISSIMA	472.00
COCCONEIS PLACENTULA	68.00
AMPHIPLEURA PELLUCIDA	202.00
GYROSIGMA ACUMINATUM	67.50
PLEUROSIGMA DELICATULUM	[illegible]
NAVICULA CRYPTOCEPHALA	540.00
NAVICULA SALINARUM VAR. INTERMEDIA	1620.00
NAVICULA TRIPUNCTATA	472.00
NAVICULA VIRIDULA	68.00
AMPHORA OVALIS VAR. PEDICULUS	270.00
CYMBELLA AFFINIS	270.00
CYMBELLA MEXICANA	67.50
CYMBELLA VENTRICOSA	202.00

APPENDIX D-10-2 (Continued)

SITE = 30 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	540.00
EPITHEMIA SOREX	7063.[illegible]
RHOPALODIA GIBBA	270.00
NITZSCHIA APICULATA	135.00
NITZSCHIA CHASEI	338.0[illegible]
NITZSCHIA DISSIPATA	1553.[illegible]
NITZSCHIA FRUSTULUM	945.00
NITZSCHIA GRACILIS	53.00
NITZSCHIA LINEARIS	53.00
NITZSCHIA PALEA	53.00
CYMATOPLEURA SOLEA	.50

APPENDIX D-10-2 (Continued)

SITE = 30 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1046.00
CALOTHRIX SPP	472.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	34.00
DIATOMA VULGARE	34.00
FRAGILARIA VAUCHERIAE	169.00
SYNEDRA DELICATISSIMA	34.00
ACHNANTHES MINUTISSIMA	34.00
GYROSIGMA ACUMINATUM	.90
PLEUROSIGMA DELICATULUM	.30
NAVICULA CRYPTOCEPHALA	236.00
NAVICULA SALINARUM VAR. INTERMEDIA	708.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VIRIDULA	34.00
AMPHORA OVALIS VAR. PEDICULUS	68.00
CYMBELLA AFFINIS	169.00
CYMBELLA MEXICANA	34.00
CYMBELLA SINUATA	34.00
GOMPHONEMA OLIVACEUM	34.00

APPENDIX D-10-2 (Continued)

SITE = 30 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	68.00
EPITHEMIA SOREX	5525.00
RHOPALODIA GIBBA	101.00
NITZSCHIA CHASEI	34.00
NITZSCHIA DISSIPATA	1654.00
NITZSCHIA FRUSTULUM	1114.00
NITZSCHIA GRACILIS	68.00
NITZSCHIA HOLSATICA	34.00
NITZSCHIA PALEA	101.00

APPENDIX D-10-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	540.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	22.00
DIATOMA VULGARE	900.00
FRAGILARIA VAUCHERIAE	45.00
SYNEDRA DELICATISSIMA	315.00
SYNEDRA PULCHELLA	22.00
SYNEDRA ULNA	45.00
NAVICULA CRYPTOCEPHALA	292.00
NAVICULA TRIPUNCTATA	45.00
NAVICULA VIRIDULA	630.00
CALONEIS AMPHISBAENA	.20
AMPHORA OVALIS VAR. PEDICULUS	90.00
CYMBELLA AFFINIS	225.00
CYMBELLA MEXICANA	.20
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA OLIVACEUM	45.00
GOMPHONEMA VENTRICOSUM	382.00
EPITHEMIA SOREX	2105.00

APPENDIX D-10-2 (Continued)

SITE = 31 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBA	22.00
RHOPALODIA GIBBERULA	45.00
NITZSCHIA DISSIPATA	562.00
NITZSCHIA FRUSTULUM	292.00
CYMATOPLEURA SOLEA	.10

APPENDIX D-10-2 (Continued)

SITE = 31 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	304.00
CALOTHRIX SPP	169.00
CHRYSOPHYTA	
DIATOMA VULGARE	472.00
FRAGILARIA VAUCHERIAE	135.00
SYNEDRA DELICATISSIMA	169.00
GYROSIGMA ACUMINATUM	.30
NAVICULA CRYPTOCEPHALA	472.00
NAVICULA SALINARUM VAR. INTERMEDIA	1080.00
NAVICULA TRIPUNCTATA	169.00
NAVICULA VIRIDULA	101.00
CYMBELLA AFFINIS	405.00
CYMBELLA MEXICANA	.90
GOMPHONEMA OLIVACEUM	68.00
GOMPHONEMA VENTRICOSUM	101.00
EPITHEMIA SOREX	6976.00
RHOPALODIA GIBBA	135.00
NITZSCHIA DISSIPATA	1215.00
NITZSCHIA FRUSTULUM	945.00

JH APPENDIX D-10-2 (Continued)

SITE = 31 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	1282.00
CHRYSOPHYTA	
DIATOMA VULGARE	135.00
FRAGILARIA LEPTOSTAURON	135.00
SYNEDRA DELICATISSIMA	675.00
SYNEDRA TENERA	68.00
ACHNANTHES MINUTISSIMA	202.00
GYROSIGMA ACUMINATUM	.50
NAVICULA CRYPTOCEPHALA	1485.00
NAVICULA SALINARUM VAR. INTERMEDIA	1890.00
NAVICULA TRIPUNCTATA	338.00
NAVICULA VIRIDULA	202.00
CYMBELLA AFFINIS	68.00
GOMPHONEMA OLIVACEUM	68.00
GOMPHONEMA VENTRICOSUM	810.00
EPITHEMIA SOREX	3730.00
RHOPALODIA GIBBA	68.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	3780.00

APPENDIX D-10-2 (Continued)

SITE = 31 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	2220.00
NITZSCHIA HOLSATICA	330.00
NITZSCHIA PALEA	68.00

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APPENDIX D-10-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	68.00
CHRYSOPHYTA	
MELOSIRA VARIANS	2.40
DIATOMA VULGARE	2363.00
SYNEDRA DELICATISSIMA	338.00
SYNEDRA ULNA	68.00
ACHNANTHES MINUTISSIMA	68.00
GYROSIGMA ACUMINATUM	1.20
PLEUROSIGMA DELICATULUM	1.50
NAVICULA CRYPTOCEPHALA	743.00
NAVICULA SALINARUM VAR. INTERMEDIA	3443.00
NAVICULA TRIPUNCTATA	270.00
AMPHORA OVALIS VAR. PEDICULUS	2565.00
CYMBELLA AFFINIS	135.00
CYMBELLA MEXICANA	68.00
CYMBELLA SINUATA	135.00
CYMBELLA VENTRICOSA	270.00
GOMPHONEMA OLIVACEUM	202.00
GOMPHONEMA VENTRICOSUM	540.00

APPENDIX D-10-2 (Continued)

SITE = 32 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA SOREX	5448.00
RHOPALODIA GIBBA	202.00
RHOPALODIA GIBBERULA	68.00
NITZSCHIA APICULATA	338.00
NITZSCHIA CHASEI	270.00
NITZSCHIA DISSIPATA	2430.00
NITZSCHIA FRUSTULUM	1553.00
NITZSCHIA GRACILIS	135.00
NITZSCHIA HOLSATICA	68.00
NITZSCHIA LINEARIS	68.00
NITZSCHIA SIGMOIDEA	.60
NITZSCHIA VERMICULARIS	.60
CYMATOPLEURA SOLEA	1.20
SURIRELLA ANGUSTATA	135.00

APPENDIX D-10-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	878.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
DIATOMA VULGARE	405.00
FRAGILARIA CONSTRUENS	135.00
SYNEDRA DELICATISSIMA	202.00
ACHNANTHES MINUTISSIMA	68.00
NAVICULA CRYPTOCEPHALA	2498.00
NAVICULA SALINARUM VAR. INTERMEDIA	3173.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	743.00
NAVICULA VAUCHERIAE	202.00
NAVICULA VIRIDULA	270.00
CALONEIS AMPHISBAENA	.60
AMPHORA OVALIS VAR. PEDICULUS	1215.00
CYMBELLA AFFINIS	135.00
CYMBELLA MEXICANA	.60
CYMBELLA SINUATA	405.00
CYMBELLA VENTRICOSA	338.00

APPENDIX D-10-2 (Continued)

SITE = 32 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	270.00
EPITHEMIA SOREX	9585.00
RHOPALODIA GIBBA	135.00
NITZSCHIA CHASEI	743.00
NITZSCHIA DISSIPATA	5738.00
NITZSCHIA FRUSTULUM	1148.00
NITZSCHIA HOLSATICA	540.00
NITZSCHIA LINEARIS	68.00
NITZSCHIA PALEA	68.00
SURIRELLA OVATA	68.00

APPENDIX D-10-2 (Continued)

SITE = 32 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	135.00
LYNGBYA SPP	135.00
CALOTHRIX SPP	
CHRYSOPHYTA	[illegible]
MELOSIRA VARIANS	63.00
CYCLOTELLA MENEGHINIANA	743.00
DIATOMA VULGARE	270.00
SYNEDRA DELICATISSIMA	.60
GYROSIGMA ACUMINATUM	338.00
NAVICULA CRYPTOCEPHALA	68.00
NAVICULA PUPULA	3173.00
NAVICULA SALINARUM VAR. INTERMEDIA	405.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VIRIDULA	1.80
CALONEIS AMPHISBAENA	472.00
AMPHORA OVALIS VAR. PEDICULUS	135.00
CYMBELLA AFFINIS	3.00
CYMBELLA MEXICANA	135.00
CYMBELLA VENTRICOSA	675.00
GOMPHONEMA OLIVACEUM	

APPENDIX D-10-2 (Continued)

[illegible] = 32 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	405.00
EPITHEMIA SOREX	5053.00
RHOPALODIA GIBBA	135.00
NITZSCHIA AMPHIBIA	68.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	4113.00
NITZSCHIA FRUSTULUM	1958.00
NITZSCHIA GRACILIS	202.00
NITZSCHIA HOLSATICA	135.00
NITZSCHIA LINEARIS	135.00
NITZSCHIA PALEA	63.00
CYMATOPLEURA SOLEA	.50

APPENDIX D-10-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	1553.00
LYNGBYA SPP	[illegible]
CALOTHRIX SPP	
CHRYSOPHYTA	[illegible]
CYCLOTELLA MENEGHINIANA	68.00
DIATOMA VULGARE	68.00
FRAGILARIA VAUCHERIAE	135.00
SYNEDRA DELICATISSIMA	[illegible]
SYNEDRA ULNA	135.00
ACHNANTHES MINUTISSIMA	.50
PLEUROSIGMA DELICATULUM	1012.00
NAVICULA CRYPTOCEPHALA	945.00
NAVICULA SALINARUM VAR. INTERMEDIA	202.00
NAVICULA TRIPUNCTATA	68.00
NAVICULA VIRIDULA	135.00
AMPHORA OVALIS VAR. PEDICULUS	338.00
CYMBELLA AFFINIS	68.00
CYMBELLA VENTRICOSA	202.00
GOMPHONEMA OLIVACEUM	68.00
GOMPHONEMA VENTRICOSUM	

APPENDIX D-10-2 (Continued)

SITE = 33 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA SOREX	6470.00
RHOPALODIA GIBBA	135.00
NITZSCHIA CHASEI	202.00
NITZSCHIA DISSIPATA	945.00
NITZSCHIA FRUSTULUM	1012.00
NITZSCHIA HOLSATICA	55.00

APPENDIX D-10-2 (Continued)

SITE = 33 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	945.00
CHRYSOPHYTA	
DIATOMA VULGARE	135.00
COCCONEIS PLACENTULA	[illegible]
GYROSIGMA ACUMINATUM	[illegible]
NAVICULA CRYPTOCEPHALA	202.00
NAVICULA SALINARUM VAR. INTERMEDIA	1012.00
NAVICULA TANTULA	68.00
NAVICULA TRIPUNCTATA	333.00
CALONEIS AMPHISBAENA	1.20
AMPHORA OVALIS VAR. PEDICULUS	135.00
CYMBELLA MEXICANA	2.40
EPITHEMIA SOREX	9450.00
RHOPALODIA GIBBA	202.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	878.00
NITZSCHIA FRUSTULUM	1148.00
NITZSCHIA GRACILIS	68.00
SURIRELLA OVATA	68.00

APPENDIX D-10-2 (Continued)

SITE = 33 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	678.00
CALOTHRIX SPP	135.00
CHRYSOPHYTA	
DIATOMA VULGARE	338.00
FRAGILARIA VAUCHERIAE	68.00
COCCONEIS PLACENTULA	68.00
NAVICULA CRYPTOCEPHALA	338.00
NAVICULA SALINARUM VAR. INTERMEDIA	743.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VIRIDULA	68.00
CALONEIS AMPHISBAENA	4.20
CALONEIS BACILLUM	68.00
AMPHORA OVALIS VAR. PEDICULUS	3578.00
CYMBELLA AFFINIS	202.00
CYMBELLA MEXICANA	1.60
EPITHEMIA SOREX	1543.00
RHOPALODIA GIBBA	19.20
RHOPALODIA GIBBERULA	68.00
NITZSCHIA CHASEI	68.00

APPENDIX D-10-2 (Continued)

SITE = 33 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1897.00
NITZSCHIA DISSIPATA	[illegible]
NITZSCHIA FRUSTULUM	63.00
NITZSCHIA HOLSATICA	58.00
NITZSCHIA PALEA	[illegible]
CYMATOPLEURA SOLEA	

APPENDIX D-10-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	54.00
CALOTHRIX SPP	7.00
CHLOROPHYTA	
CLADOPHORA SPP	7.00
CHRYSOPHYTA	
SYNEDRA MINUSCULA	7.00
NAVICULA CRYPTOCEPHALA	54.00
NAVICULA RADIOSA	.06
NAVICULA SALINARUM VAR. INTERMEDIA	34.00
NAVICULA VIRIDULA	14.00
AMPHORA OVALIS VAR. PEDICULUS	7.00
CYMBELLA AFFINIS	14.00
CYMBELLA VENTRICOSA	20.00
GOMPHONEMA OLIVACEUM	74.00
GOMPHONEMA PARVULUM	14.00
GOMPHONEMA VENTRICOSUM	14.00
EPITHEMIA SOREX	1458.00

APPENDIX D-10-2 (Continued)

SITE = 34 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBA	.90
NITZSCHIA APICULATA	7.00
NITZSCHIA CHASEI	7.00
NITZSCHIA DISSIPATA	88.00
NITZSCHIA FRUSTULUM	142.00
NITZSCHIA HOLSATICA	20.00

APPENDIX D-10-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	9.00
CHLOROPHYTA	
STIGEOCLONIUM SPP	29.00
CHRYSOPHYTA	
DIATOMA VULGARE	19.00
SYNEDRA DELICATISSIMA	9.00
ACHNANTHES MINUTISSIMA	38.00
NAVICULA CRYPTOCEPHALA	145.00
NAVICULA SALINARUM VAR. INTERMEDIA	87.00
NAVICULA TRIPUNCTATA	9.00
CYMBELLA AFFINIS	9.00
CYMBELLA VENTRICOSA	29.00
GOMPHONEMA OLIVACEUM	29.00
GOMPHONEMA PARVULUM	9.00
GOMPHONEMA VENTRICOSUM	9.00
EPITHEMIA SOREX	2835.00
RHOPALODIA GIBBA	1.20

APPENDIX D-10-2 (Continued)

SITE = 34 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	19.00
NITZSCHIA CHASEI	251.00
NITZSCHIA DISSIPATA	154.00
NITZSCHIA FRUSTULUM	9.00
NITZSCHIA HOLSATICA	.08
CYMATOPLEURA SOLEA	

APPENDIX D-10-2 (Continued)

SITE = 34 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	610.00
CALOTHRIX SPP	573.00
CHRYSOPHYTA	
SYNEDRA DELICATISSIMA	34.00
COCCONEIS PLACENTULA	34.00
ACHNANTHES MINUTISSIMA	68.00
GYROSIGMA ACUMINATUM	.30
NAVICULA CRYPTOCEPHALA	405.00
NAVICULA SALINARUM	472.00
NAVICULA TRIPUNCTATA	34.00
CALONEIS AMPHISBAENA	.30
CYMBELLA AFFINIS	101.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA OLIVACEUM	101.00
GOMPHONEMA VENTRICOSUM	169.00
EPITHEMIA SOREX	4908.00
RHOPALODIA GIBBA	169.00
RHOPALODIA GIBBERULA	34.00
NITZSCHIA CHASEI	135.00

APPENDIX D-10-2 (Continued)

SITE = 34 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1213.00
NITZSCHIA DISSIPATA	510.00
NITZSCHIA FRUSTULUM	101.00
NITZSCHIA GRACILIS	169.00
NITZSCHIA HOLSATICA	34.00
NITZSCHIA PALEA	

APPENDIX D-10-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	135.00
CALOTHRIX SPP	9.60
CHLOROPHYTA	
CLADOPHORA SPP	35.00
CHRYSOPHYTA	
DIATOMA VULGARE	68.00
SYNEDRA DELICATISSIMA	34.00
ACHNANTHES MINUTISSIMA	34.00
AMPHIPLEURA PELLUCIDA	34.00
PLEUROSIGMA DELICATULUM	.00
NAVICULA CRYPTOCEPHALA	337.00
NAVICULA SALINARUM VAR. INTERMEDIA	506.00
NAVICULA SUBHAMULATA	270.00
NAVICULA TANTULA	3308.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VIRIDULA	101.00
CALONEIS AMPHISBAENA	34.00

APPENDIX D-10-2 (Continued)

SITE = 35 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CALONEIS BACILLUM	236.00
AMPHORA OVALIS	34.00
AMPHORA OVALIS VAR. PEDICULUS	4219.00
CYMBELLA MEXICANA	34.00
CYMBELLA SINUATA	236.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA INTRICATUM	34.00
GOMPHONEMA VENTRICOSUM	135.00
EPITHEMIA SOREX	1654.00
RHOPALODIA GIBBA	34.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	978.00
NITZSCHIA FRUSTULUM	1012.00

APPENDIX D-10-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	607.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
DIATOMA VULGARE	68.00
FRAGILARIA LEPTOSTAURON	68.00
ACHNANTHES MINUTISSIMA	135.00
NAVICULA CRYPTOCEPHALA	1012.00
NAVICULA PELLICULOSA	68.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	2228.00
NAVICULA TRIPUNCTATA	202.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	68.00
CALONEIS AMPHISBAENA	.60
CYMBELLA MEXICANA	68.00
CYMBELLA VENTRICOSA	68.00
GOMPHONEMA CONSTRICTUM	68.00
GOMPHONEMA VENTRICOSUM	202.00
EPITHEMIA SOREX	2275.00
RHOPALODIA GIBBA	270.00

APPENDIX D-10-2 (Continued)

SITE = 35 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBERULA	68.00
NITZSCHIA CHASEI	607.00
NITZSCHIA DISSIPATA	3511.00
NITZSCHIA FRUSTULUM	1080.00
NITZSCHIA HOLSATICA	270.00
NITZSCHIA LINEARIS	.60
NITZSCHIA PALEA	68.00
CYMATOPLEURA SOLEA	.60

APPENDIX D-10-2 (Continued)

SITE = 35 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	135.00
CALOTHRIX SPP	68.00
CHRYSOPHYTA	
FRAGILARIA LEPTOSTAURON	68.00
FRAGILARIA VAUCHERIAE	1.20
COCCONEIS PEDICULUS	68.00
GYROSIGMA ACUMINATUM	68.00
PLEUROSIGMA DELICATULUM	68.00
NAVICULA CRYPTOCEPHALA	1012.00
NAVICULA SALINARUM VAR. INTERMEDIA	810.00
NAVICULA SUBHAMULATA	270.00
NAVICULA TANTULA	3578.00
NAVICULA TRIPUNCTATA	135.00
NAVICULA VAUCHERIAE	68.00
NAVICULA VIRIDULA	68.00
CALONEIS AMPHISBAENA	.60
CALONEIS BACILLUM	338.00
AMPHORA OVALIS VAR. PEDICULUS	7425.00
CYMBELLA AFFINIS	135.00

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APPENDIX D-10-2 (Continued)

SITE = 35 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	1.80
CYMBELLA MEXICANA	135.00
CYMBELLA SINUATA	135.00
GOMPHONEMA OLIVACEUM	135.00
GOMPHONEMA VENTRICOSUM	7425.00
EPITHEMIA SOREX	135.00
RHOPALODIA GIBBA	270.00
NITZSCHIA CHASEI	1553.00
NITZSCHIA DISSIPATA	2430.00
NITZSCHIA FRUSTULUM	68.00
NITZSCHIA GRACILIS	135.00
NITZSCHIA PALEA	68.00
NITZSCHIA VERMICULARIS	.60
CYMATOPLEURA SOLEA	

RBOSP PROGRESS REPORT

APPENDIX D-10-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D- 10-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.[1]

Station Replicate	Dry Weight (g)	Organic Weight (g)
1-A	0.2330	0.0452
1-B	0.2821	0.0489
1-C	0.1050	0.0264
2-A	0.3957	0.0531
2-B	0.4151	0.0690
2-C	0.2441	0.0339
3-A	0.1330	0.0215
3-B	0.0990	0.0199
3-C	0.3098	0.0501
4-A	0.1857	0.0280
4-B	0.3846	0.0473
4-C	0.1503	0.0219
5-A	0.1374	0.0244
5-B	0.2201	0.0338
5-C	0.1351	0.0272
7-A	0.1218	0.0235
7-B	0.1301	0.0204
7-C	0.1028	0.0190
8-A	0.1771	0.0499
8-B	0.1714	0.0388
8-C	0.1613	0.0442
9-A	0.2032	0.0218
9-B	1.1443	0.0741
9-C	0.3137	0.0372
12-A	0.2327	0.0222
12-B	0.3351	0.0289
12-C	0.4352	0.0328
13-A	0.3475	0.0787
13-B	0.1220	0.0279
13-C	0.2184	0.0482
14-A	0.3199	0.0602
14-B	0.3757	0.0649
14-C	0.1578	0.0377
17	Insufficient substrate for sampling	

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[1] Stations 6, 10-11, 15-16 and 18 were dry at the time of sampling.

APPENDIX D-10-3 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
19-A	0.6616	0.1609
19-B	0.3957	0.0832
19-C	0.5750	0.1185
20-A	0.2358	0.0365
20-B	0.2997	0.0406
20-C	0.1751	0.0285
21-A	0.3711	0.0424
21-B	0.2916	0.0351
21-C	0.6071	0.0570
22-A	0.2369	0.0367
22-B	1.0432	0.0856
22-C	0.5131	0.0550
23-A	2.9780	0.2792
23-B	3.2013	0.3114
23-C	3.2550	0.2168
24-A	8.1492	0.7468
24-B	7.9695	0.6934
24-C	3.0679	0.3735
25-A	2.3544	0.3347
25-B	2.7188	0.3860
25-C	2.1458	0.3388
26-A	4.9838	0.4926
26-B	7.2777	0.5880
26-C	6.0654	0.5011
27-A	6.1506	0.0204
27-B	5.5396	0.5495
27-C	6.1217	0.6628
28-A	0.6797	0.0719
28-B	2.0155	0.1698
28-C	0.7848	0.0549
29-A	3.7836	0.2538
29-B	2.6231	0.3787
29-C	3.7387	0.3866
30-A	3.8319	0.2475
30-B	2.5042	0.2115
30-C	3.2892	0.2286
31-A	2.7865	0.3038
31-B	4.6039	0.4499
31-C	3.9557	0.4383
32-A	5.8966	0.4511
32-B	3.1169	0.3164
32-C	5.5829	0.4107

APPENDIX D-10-3 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
33-A	2.1006	0.2438
33-B	1.6510	0.1502
33-C	6.5819	0.5248
34-A	1.8231	0.1243
34-B	1.3825	0.2028
34-C	2.1264	0.1525
35-A	2.0846	0.1250
35-B	3.2957	0.2240
35-C	6.7059	0.4164

APPENDIX D-10-4

CHLOROPHYLL A OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-10-4

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.[1] (Data are expressed as mg Chlorophyll a per cm^2.)

Station	Replicate		
	A	B	C
1	.0021	.0006	.0004
2	.0027	.0006	.0007
3	.0008	.0001	.0003
4	.0002	.0017	.0006
5	.0017	.0006	.0007
7	.0002	.0003	.0008
8	.0056	.0018	.0020
9	.0002	.0002	.0012
12	.0001	.0001	.0001
13	.0033	.0048	.0033
14	.0068	.0062	.0047
17	.0019	--	--
19	.0086	.0020	.0050
20	.0009	.0006	.0008
21	.0008	.0023	.0012
22	.0011	.0018	.0021
23	.0588	.0143	.0668
24	.0428	.0082	.0246
25	.0210	.0204	.0642
26	.0144	.0198	.0268
27	.0238	.0176	.0156
28	.0051	.0065	.0116
29	.0226	.0086	.0237
30	.0172	.0053	.0155
31	.0231	.0209	.0196
32	.0235	.0314	.0287
33	.0225	.0206	.0213
34	.0233	.0217	.0219
35	.0310	.0222	.0224

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[1] Stations 6, 10-11, 15-16 and 18 were dry at the time of sampling.

RBOSP PROGRESS REPORT

APPENDIX D-10-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-10-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

CYANOPHYTA

Lyngbya spp.

CHLOROPHYTA

Cladophora spp.

CHRYSOPHYTA

Cyclotella meneghiniana
Fragilaria construens
Fragilaria pinnata
Fragilaria leptostauron
Fragilaria vaucheriae
Cocconeis pediculus
Cocconeis placentula
Melosira varians
Diatoma vulgare
Synedra delicatissima
Synedra pulchella
Synedra ulna
Achnanthes lanceolata
Achnanthes minutissima
Amphipleura pellucida
Gyrosigma acuminatum
Pleurosigma delicatulum
Navicula cryptocephala
Navicula pelliculosa
Navicula pupula
Navicula salinarum var. *intermedia*
Navicula tantula
Navicula tripunctata
Navicula viridula
Amphera ovalis var. *pediculus*
Caloneis amphisbaena
Amphora ovalis var. *pediculus*
Amphora sp. 1
Cymbella affinis
Cymbella mexicana
Cymbella sinuata
Cymbella ventricosa
Gomphonema acuminatum

APPENDIX D-10-5 (Continued)

Gomphonema acuminatum var. coronatum
Gomphonema intricatum
Gomphonema olivaceum
Gomphonema parvulum
Gomphonema ventricosum
Gomphonema sp. 1
Epithemia sorex
Epithemia zebra
Amphiprora alata
Rhopalodia gibba
Rhopalodia gibberula
Nitzschia apiculata
Nitzschia capitellata
Nitzschia chasei
Nitzschia dissipata
Nitzschia frustulum
Nitzschia gracilis
Nitzschia holsatica
Nitzschia hungarica
Nitzschia latens
Nitzschia microcephala
Nitzschia palea
Nitzschia sigma
Nitzschia vermicularis
Surirella ovalis
Cymatopleura solea

RBOSP PROGRESS REPORT

APPENDIX D-10-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-10-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Site=80 Rep=1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA PULCHELLA	.10
ACHNANTHES MINUTISSIMA	74.00
GYROSIGMA ACUMINATUM	.04
NAVICULA ARVENSIS	4.00
NAVICULA SP 1	4.00
CYMBELLA MEXICANA	.02
CYMBELLA VENTRICOSA	11.00
GOMPHONEMA INTRICATUM	32.00
EPITHEMIA SOREX	2.00
NITZSCHIA DISSIPATA	2.00
NITZSCHIA FRUSTULUM	9.00
NITZSCHIA HOLSATICA	232.00
NITZSCHIA LATENS	14.00
NITZSCHIA PALEA	18.00

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APPENDIX D-10-6 (Continued)

SITE = 80 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	4.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	2.00
SYNEDRA PULCHELLA	.20
ACHNANTHES MINUTISSIMA	344.00
GYROSIGMA ACUMINATUM	.02
NAVICULA CRYPTOCEPHALA	2.00
CYMBELLA VENTRICOSA	18.00
GOMPHONEMA INTRICATUM	9.00
GOMPHONEMA OLIVACEUM	2.00
AMPHIPRORA ALATA	2.00
CYLINDROTHECA GRACILIS	2.00
NITZSCHIA FRUSTULUM	249.00
NITZSCHIA HOLSATICA	47.00
NITZSCHIA LATENS	14.00
NITZSCHIA PALEA	20.00
NITZSCHIA SIGMA	.02
SURIRELLA OVALIS	.02

APPENDIX D-10-6 (Continued)

SITE = 80 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHLOROPHYTA	
STIGEOCLONIUM SPP	8.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	6.00
SYNEDRA PULCHELLA	7.00
ACHNANTHES MINUTISSIMA	46.00
GYROSIGMA ACUMINATUM	.14
PLEUROSIGMA DELICATULUM	.02
NAVICULA CRYPTOCEPHALA	1.00
NAVICULA CUSPIDATA	1.00
NAVICULA SALINARUM VAR. INTERMEDIA	1.00
NAVICULA TRIPUNCTATA	1.00
NAVICULA VIRIDULA	9.00
NAVICULA SP 1	3.00
CYMBELLA VENTRICOSA	21.00
GOMPHONEMA INTRICATUM	26.00
EPITHEMIA SOREX	10.00
RHOPALODIA GIBBA	.02
NITZSCHIA AMPHIBIA	1.00
NITZSCHIA DISSIPATA	1.00

APPENDIX D-10-6 (Continued)

SITE = 80 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	40.00
NITZSCHIA FRUSTULUM	51.00
NITZSCHIA HOLSATICA	1.00
NITZSCHIA HUNGARICA	31.00
NITZSCHIA LATENS	1.00
NITZSCHIA MICROCEPHALA	11.00
NITZSCHIA PALEA	.16
NITZSCHIA SIGMA	.10
SURIRELLA OVALIS	

APPENDIX D-10-6 (Continued)

SITE = 81 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	202.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	158.00
FRAGILARIA VAUCHERIAE	22.00
SYNEDRA PULCHELLA	22.00
ACHNANTHES MINUTISSIMA	540.00
GYROSIGMA ACUMINATUM	2.20
NAVICULA CRYPTOCEPHALA	22.00
NAVICULA SP 1	112.00
AMPHORA OVALIS VAR. PEDICULUS	45.00
CYMBELLA VENTRICOSA	247.00
GOMPHONEMA INTRICATUM	22.00
AMPHIPRORA ALATA	.20
RHOPALODIA GIBBERULA	22.00
NITZSCHIA CAPITELLATA	247.00
NITZSCHIA FRUSTULUM	202.00
NITZSCHIA HOLSATICA	90.00
NITZSCHIA LATENS	946.00
NITZSCHIA MICROCEPHALA	22.00

APPENDIX D-10-6 (Continued)

SITE = 61 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHLOROPHYTA	
CLADOPHORA SPP	14.00
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
SYNEDRA PULCHELLA	8.00
ACHNANTHES MINUTISSIMA	421.00
GYROSIGMA ACUMINATUM	.04
NAVICULA VIRIDULA	3.00
CYMBELLA VENTRICOSA	27.00
GOMPHONEMA INTRICATUM	81.00
EPITHEMIA SOREX	116.00
NITZSCHIA APICULATA	3.00
NITZSCHIA CAPITELLATA	3.00
NITZSCHIA FRUSTULUM	5.00
NITZSCHIA HOLSATICA	73.00
NITZSCHIA LATENS	46.00
NITZSCHIA SIGMA	.12
SURIRELLA OVATA	5.00

APPENDIX D-10-6 (Continued)

SITE = 01 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA SIGMA	2.00
SURIRELLA OVALIS	.40

APPENDIX D-10-6 (Continued)

SITE = 81 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	3.00
SYNEDRA PULCHELLA	.24
ACHNANTHES MINUTISSIMA	211.00
GYROSIGMA ACUMINATUM	.06
NAVICULA PELLICULOSA	3.00
NAVICULA VIRIDULA	3.00
NAVICULA SP 1	11.00
CYMBELLA VENTRICOSA	30.00
GOMPHONEMA INTRICATUM	43.00
NITZSCHIA APICULATA	3.00
NITZSCHIA FRUSTULUM	146.00
NITZSCHIA HOLSATICA	224.00
NITZSCHIA LATENS	49.00
NITZSCHIA MICROCEPHALA	3.00
NITZSCHIA SIGMA	.02
SURIRELLA OVALIS	.06

APPENDIX D-10-6 (Continued)

SITE = 83 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	68.00
CHRYSOPHYTA	
FRAGILARIA CONSTRUENS	180.00
SYNEDRA DELICATISSIMA	.60
COCCONEIS PLACENTULA	22.00
ACHNANTHES MINUTISSIMA	112.00
AMPHIPLEURA PELLUCIDA	22.00
PLEUROSIGMA DELICATULUM	.20
NAVICULA CRYPTOCEPHALA	158.00
NAVICULA SALINARUM VAR. INTERMEDIA	315.00
NAVICULA TRIPUNCTATA	45.00
CALONEIS AMPHISBAENA	.20
AMPHORA OVALIS VAR. PEDICULUS	45.00
CYMBELLA MEXICANA	.80
GOMPHONEMA ACUMINATUM	.40
GOMPHONEMA VENTRICOSUM	68.00
EPITHEMIA SOREX	1038.00
RHOPALODIA GIBBA	6.60
NITZSCHIA DISSIPATA	1035.00

APPENDIX D-10-6 (Continued)

SITE = 53 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	900.00

APPENDIX D-10-G (Continued)

SITE = S3 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA DELICATISSIMA	14.00
COCCONEIS PEDICULUS	7.00
COCCONEIS PLACENTULA	34.00
ACHNANTHES MINUTISSIMA	14.00
NAVICULA CRYPTOCEPHALA	155.00
NAVICULA SALINARUM VAR. INTERMEDIA	155.00
NAVICULA TRIPUNCTATA	34.00
NAVICULA VIRIDULA	7.00
CALONEIS AMPHISBAENA	.06
AMPHORA OVALIS VAR. PEDICULUS	14.00
CYMBELLA AFFINIS	27.00
CYMBELLA MEXICANA	.06
CYMBELLA SINUATA	7.00
CYMBELLA VENTRICOSA	7.00
GOMPHONEMA INTRICATUM	7.00
GOMPHONEMA OLIVACEUM	47.00
GOMPHONEMA VENTRICOSUM	7.00
EPITHEMIA SOREX	3301.00
EPITHEMIA ZEBRA	14.00
RHOPALODIA GIBBA	1.68
NITZSCHIA CHASEI	20.00

APPENDIX D-10-6 (Continued)

SITE = 83 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	250.00
NITZSCHIA FRUSTULUM	256.00
NITZSCHIA HOLSATICA	27.00
NITZSCHIA LINEARIS	7.00
NITZSCHIA PALEA	7.00
CYMATOPLEURA SOLEA	.06

APPENDIX D-10-6 (Continued)

SITE = 83 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
DIATOMA VULGARE	68.00
SYNEDRA DELICATISSIMA	4.20
SYNEDRA ULNA	.60
COCCONEIS PLACENTULA	34.00
ACHNANTHES MINUTISSIMA	135.00
GYROSIGMA ACUMINATUM	.30
PLEUROSIGMA DELICATULUM	.90
NAVICULA CRYPTOCEPHALA	438.00
NAVICULA SALINARUM VAR. INTERMEDIA	405.00
NAVICULA TRIPUNCTATA	169.00
CALONEIS AMPHISBAENA	34.00
CYMBELLA AFFINIS	34.00
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA INTRICATUM	101.00
GOMPHONEMA OLIVACEUM	34.00
GOMPHONEMA PARVULUM	68.00
GOMPHONEMA VENTRICOSUM	135.00
EPITHEMIA SOREX	49.00
RHOPALODIA GIBBA	135.00
NITZSCHIA APICULATA	68.00
NITZSCHIA CHASEI	34.00

APPENDIX D-10-6 (Continued)

SITE = S3 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA DISSIPATA	1755.00
NITZSCHIA FRUSTULUM	1384.00
NITZSCHIA GRACILIS	34.00
NITZSCHIA HOLSATICA	270.00

APPENDIX D-10-6 (Continued)

SITE = 67 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
DIATOMA VULGARE	14.00
FRAGILARIA CONSTRUENS	54.00
COCCONEIS PLACENTULA	34.00
GYROSIGMA ACUMINATUM	.24
PLEUROSIGMA DELICATULUM	.24
NAVICULA CRYPTOCEPHALA	47.00
NAVICULA PELLICULOSA	7.00
NAVICULA SALINARUM VAR. INTERMEDIA	54.00
NAVICULA TRIPUNCTATA	27.00
NAVICULA VIRIDULA	7.00
AMPHORA OVALIS VAR. PEDICULUS	7.00
CYMBELLA AFFINIS	20.00
CYMBELLA MEXICANA	.24
CYMBELLA VENTRICOSA	7.00
GOMPHONEMA INTRICATUM	14.00
GOMPHONEMA OLIVACEUM	14.00
EPITHEMIA SOREX	473.00
RHOPALODIA GIBBA	14.00
RHOPALODIA GIBBERULA	7.00
NITZSCHIA CHASEI	14.00
NITZSCHIA DISSIPATA	128.00

APPENDIX D-10-6 (Continued)

SITE = 67 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA FRUSTULUM	14.00
NITZSCHIA GRACILIS	7.00
NITZSCHIA HOLSATICA	14.00
NITZSCHIA LINEARIS	.06
NITZSCHIA VERMICULARIS	.30

APPENDIX D-10-6 (Continued)

SITE = B7 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
FRAGILARIA LEPTOSTAURON	2.00
SYNEDRA DELICATISSIMA	2.00
COCCONEIS PEDICULUS	9.00
COCCONEIS PLACENTULA	10.00
ACHNANTHES LANCEOLATA	2.00
ACHNANTHES MINUTISSIMA	4.00
AMPHIPLEURA PELLUCIDA	2.00
GYROSIGMA ACUMINATUM	.03
PLEUROSIGMA DELICATULUM	.03
NAVICULA CRYPTOCEPHALA	7.00
NAVICULA SALINARUM VAR. INTERMEDIA	9.00
NAVICULA TRIPUNCTATA	4.00
NAVICULA VIRIDULA	2.00
AMPHORA OVALIS VAR. PEDICULUS	5.00
CYMBELLA AFFINIS	2.00
CYMBELLA VENTRICOSA	4.00
GOMPHONEMA INTRICATUM	2.00
GOMPHONEMA OLIVACEUM	9.00
EPITHEMIA SOREX	51.00
RHOPALODIA GIBBA	.24
NITZSCHIA APICULATA	2.00

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APPENDIX D-10-6 (Continued)

SITE = 87 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
NITZSCHIA CHASEI	9.00
NITZSCHIA DISSIPATA	22.00
NITZSCHIA FRUSTULUM	4.00
NITZSCHIA HOLSATICA	2.00
NITZSCHIA PALEA	2.00
CYMATOPLEURA SOLEA	.03

APPENDIX D-10-6 (Continued)

SITE = 57 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
MELOSIRA VARIANS	.08
DIATOMA VULGARE	4.00
FRAGILARIA PINNATA	9.00
COCCONEIS PEDICULUS	13.00
COCCONEIS PLACENTULA	40.00
ACHNANTHES MINUTISSIMA	27.00
PLEUROSIGMA DELICATULUM	.04
NAVICULA CRYPTOCEPHALA	32.00
NAVICULA SALINARUM VAR. INTERMEDIA	58.00
NAVICULA TRIPUNCTATA	9.00
NAVICULA VIRIDULA	13.00
CALONEIS AMPHISBAENA	.08
CYMBELLA AFFINIS	9.00
CYMBELLA MEXICANA	.20
CYMBELLA SINUATA	4.00
CYMBELLA VENTRICOSA	13.00
GOMPHONEMA INTRICATUM	50.00
GOMPHONEMA OLIVACEUM	22.00
GOMPHONEMA PARVULUM	4.00
GOMPHONEMA VENTRICOSUM	9.00
EPITHEMIA SOREX	797.00

APPENDIX D-10-6 (Continued)

SITE = 87 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
EPITHEMIA ZEBRA	4.00
RHOPALODIA GIBBA	15.00
NITZSCHIA DISSIPATA	108.00
NITZSCHIA FRUSTULUM	76.00
NITZSCHIA HOLSATICA	36.00
NITZSCHIA PALEA	13.00
NITZSCHIA SIGMA	.04
CYMATOPLEURA SOLEA	.04
SURIRELLA OVALIS	4.00

APPENDIX D-10-6 (Continued)

SITE = 89 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	202.00
CHRYSOPHYTA	
COCCONEIS PEDICULUS	68.00
AMPHIPLEURA PELLUCIDA	34.00
GYROSIGMA ACUMINATUM	.60
PLEUROSIGMA DELICATULUM	.30
NAVICULA CRYPTOCEPHALA	438.00
NAVICULA SALINARUM VAR. INTERMEDIA	911.00
NAVICULA TRIPUNCTATA	270.00
NAVICULA VIRIDULA	135.00
AMPHORA OVALIS VAR. PEDICULUS	135.00
CYMBELLA AFFINIS	169.00
CYMBELLA MEXICANA	.90
CYMBELLA VENTRICOSA	34.00
GOMPHONEMA ACUMINATUM VAR. CORONATUM	34.00
GOMPHONEMA INTRICATUM	169.00
GOMPHONEMA OLIVACEUM	202.00
GOMPHONEMA VENTRICOSUM	101.00
EPITHEMIA SOREX	5670.00

APPENDIX D-10-6 (Continued)

SITE = 69 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBA	34.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	5198.00
NITZSCHIA FRUSTULUM	371.00
CYMATOPLEURA SOLEA	.30

APPENDIX D-10-6 (Continued)

SITE = 89 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	68.00
CHRYSOPHYTA	
DIATOMA VULGARE	22.00
FRAGILARIA LEPTOSTAURON	68.00
SYNEDRA DELICATISSIMA	.20
GYROSIGMA ACUMINATUM	.20
PLEUROSIGMA DELICATULUM	.20
NAVICULA CRYPTOCEPHALA	270.00
NAVICULA SALINARUM VAR. INTERMEDIA	472.00
NAVICULA TRIPUNCTATA	45.00
NAVICULA VAUCHERIAE	22.00
NAVICULA VIRIDULA	112.00
CYMBELLA AFFINIS	135.00
CYMBELLA MEXICANA	.60
CYMBELLA VENTRICOSA	45.00
GOMPHONEMA INTRICATUM	362.00
GOMPHONEMA OLIVACEUM	540.00
GOMPHONEMA PARVULUM	68.00
GOMPHONEMA VENTRICOSUM	45.00

APPENDIX D-10-6 (Continued)

SITE = 39 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA SP 1	90.00
EPITHEMIA SOREX	4343.00
EPITHEMIA ZEBRA	22.00
RHOPALODIA GIBBA	22.00
NITZSCHIA CHASEI	112.00
NITZSCHIA DISSIPATA	1935.00
NITZSCHIA FRUSTULUM	428.00
NITZSCHIA GRACILIS	22.00
NITZSCHIA HOLSATICA	112.00
NITZSCHIA LATENS	45.00
NITZSCHIA LINEARIS	22.00
NITZSCHIA VERMICULARIS	.20

APPENDIX D-10-6 (Continued)

SITE = 29 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
CYCLOTELLA MENEGHINIANA	34.00
ACHNANTHES MINUTISSIMA	101.00
GYROSIGMA ACUMINATUM	.90
NAVICULA CRYPTOCEPHALA	169.00
NAVICULA SALINARUM VAR. INTERMEDIA	68.00
NAVICULA TANTULA	34.00
NAVICULA TRIPUNCTATA	202.00
AMPHORA OVALIS VAR. PEDICULUS	68.00
CYMBELLA AFFINIS	135.00
CYMBELLA MEXICANA	.30
GOMPHONEMA INTRICATUM	34.00
GOMPHONEMA OLIVACEUM	304.00
GOMPHONEMA PARVULUM	101.00
GOMPHONEMA VENTRICOSUM	34.00
EPITHEMIA SOREX	4658.00
EPITHEMIA ZEBRA	.30
RHOPALODIA GIBBA	68.00
NITZSCHIA CHASEI	34.00
NITZSCHIA DISSIPATA	2362.00
NITZSCHIA FRUSTULUM	405.00

APPENDIX D-10-6 (Continued)

SITE = 95 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	135.00
CHRYSOPHYTA	
FRAGILARIA LEPTOSTAURON	34.00
FRAGILARIA PINNATA	34.00
SYNEDRA DELICATISSIMA	34.00
COCCONEIS PLACENTULA	101.00
AMPHIPLEURA PELLUCIDA	34.00
GYROSIGMA ACUMINATUM	1.00
NAVICULA CRYPTOCEPHALA	101.00
NAVICULA SALINARUM VAR. *INTERMEDIA*	540.00
NAVICULA TRIPUNCTATA	34.00
CALONEIS BACILLUM	34.00
AMPHORA OVALIS VAR. *PEDICULUS*	101.00
AMPHORA SP 1	34.00
CYMBELLA AFFINIS	202.00
CYMBELLA MEXICANA	1.00
GOMPHONEMA PARVULUM	34.00
GOMPHONEMA VENTRICOSUM	135.00
EPITHEMIA SOREX	665.00

APPENDIX D-10-6 (Continued)

SITE = 95 REP = 1

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
RHOPALODIA GIBBA	68.00
NITZSCHIA APICULATA	135.00
NITZSCHIA CAPITELLATA	34.00
NITZSCHIA CHASEI	135.00
NITZSCHIA DISSIPATA	1282.00
NITZSCHIA FRUSTULUM	1046.00
NITZSCHIA GRACILIS	101.00
NITZSCHIA HOLSATICA	68.00
NITZSCHIA PALEA	68.00

APPENDIX D-10- 6 (Continued)

SITE = 95 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CYANOPHYTA	
LYNGBYA SPP	27.00
CHRYSOPHYTA	
FRAGILARIA VAUCHERIAE	14.00
SYNEDRA DELICATISSIMA	.24
COCCONEIS PEDICULUS	27.00
ACHNANTHES MINUTISSIMA	20.00
AMPHIPLEURA PELLUCIDA	7.00
PLEUROSIGMA DELICATULUM	.18
NAVICULA CRYPTOCEPHALA	54.00
NAVICULA PELLICULOSA	7.00
NAVICULA SALINARUM VAR. INTERMEDIA	148.00
NAVICULA TRIPUNCTATA	7.00
CALONEIS AMPHISBAENA	.06
CYMBELLA AFFINIS	7.00
CYMBELLA MEXICANA	.06
CYMBELLA MICROCEPHALA	7.00
CYMBELLA VENTRICOSA	7.00
GOMPHONEMA INTRICATUM	20.00
GOMPHONEMA OLIVACEUM	27.00

APPENDIX D-10-6 (Continued)

SITE = 95 REP = 2

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
GOMPHONEMA VENTRICOSUM	27.00
EPITHEMIA SOREX	992.00
RHOPALODIA GIBBA	27.00
NITZSCHIA CHASEI	40.00
NITZSCHIA DISSIPATA	128.00
NITZSCHIA FRUSTULUM	196.00
NITZSCHIA GRACILIS	7.00
NITZSCHIA HOLSATICA	40.00
NITZSCHIA PALEA	20.00

APPENDIX D-10-6 (Continued

SITE = 95 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	
SYNEDRA DELICATISSIMA	2.00
COCCONEIS PLACENTULA	22.00
ACHNANTHES MINUTISSIMA	90.00
NAVICULA CRYPTOCEPHALA	180.00
NAVICULA PUPULA	22.00
NAVICULA SALINARUM VAR. INTERMEDIA	135.00
NAVICULA TRIPUNCTATA	45.00
CYMBELLA AFFINIS	22.00
CYMBELLA MEXICANA	.40
CYMBELLA VENTRICOSA	22.00
GOMPHONEMA INTRICATUM	22.00
GOMPHONEMA OLIVACEUM	22.00
GOMPHONEMA VENTRICOSUM	68.00
EPITHEMIA SOREX	7808.00
RHOPALODIA GIBBA	2.00
NITZSCHIA APICULATA	22.00
NITZSCHIA CHASEI	45.00
NITZSCHIA DISSIPATA	360.00
NITZSCHIA FRUSTULUM	585.00
NITZSCHIA GRACILIS	90.00
NITZSCHIA HOLSATICA	112.00

APPENDIX D-10-6 (Continued)

SITE = 95 REP = 3

TAXON	DENSITY (CELLS/SQUARE MM)
CHRYSOPHYTA	22.00
NITZSCHIA PALEA	

RBOSP PROGRESS REPORT

APPENDIX D-10-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D- 10-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

Station Replicate	Dry Weight (g)	Organic Weight (g)
20-A	0.0768	0.0126
20-B	0.1176	0.0183
20-C	0.1511	0.0179
21-A	0.3537	0.0352
21-B	0.1110	0.0136
21-C	0.1390	0.0174
23-A	0.2591	0.0330
23-B	0.1923	0.0296
23-C	0.3636	0.0422
27-A	0.4758	0.0467
27-B	0.1661	0.0185
27-C	0.0938	0.0198
29-A	1.1677	0.0760
29-B	1.6100	0.1337
29-C	0.8747	0.1038
35-A	0.3104	0.0377
35-B	0.1949	0.0518
35-C	0.3032	0.0547

RBOSP PROGRESS REPORT

APPENDIX D-10-8

CHLOROPHYLL A CONCENTRATIONS FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES

AUGUST - SEPTEMBER 1975

APPENDIX D-10-8

CHLOROPHYLL A CONCENTRATIONS FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

Station	Replicate		
	A	B	C
20	.0001	.0008	.0006
21	.0024	.0008	.0008
23	.0171	.0082	.0170
27	.0005	.0010	.0006
29	.1010	.0142	.0083
35	.0100	.0050	.0103

2.4.5 Benthos

2.4.5 Benthos

2.4.5.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.5.1 of Progress Report 3 for specific objectives.

2.4.5.2 Methods

The methods reported in section 2.4.5.2 of Progress Reports 2 and 3 remain unchanged, with the exception that the D-frame net was utilized at Station 25 during both the July - August and August - September 1975 sampling of the White River. See section 2.4.5.2 of Progress Reports 2 and 3 for specific methods used in benthic sampling and analysis.

2.4.5.3 Results

Appendix D-12-1 lists the 121 benthic taxa observed in samples taken during July - August 1975 and Appendix D-13-1 lists the 107 taxa found during the August - September sampling. Quantitative benthos data for these sampling periods are presented in Appendices D-12-2 and D-13-2 . At the Headwater Stations 1 - 4, the most abundant taxa included Chironomidae, Baetidae and Simuliidae. The most abundant taxa observed at Station 5 included Nematoda, Oligochaeta, Amphipoda, Ceratopogonidae, Chironomidae and Simuliidae. The dominant taxa at Tract stations belonged to the Baelidae, Chironomidae and Simuliidae. In Yellow Creek, Oligochaeta and Ceratopogonidae were the most abundant taxa with Amphipods also being abundant at Station 19. The White River benthic fauna was dominated by the Oligochaeta, Chironomidae and Hydropsychidae.

The most abundant taxa at Headwater Stations 1 - 4 in August - September include Chironomidae, Simuliidae, Baetidae, Stratiomyidae and Plecoptera. The benthos at Station 5 was dominated by Oligochaeta, Nematoda, Ceratopogonidae, Chironomidae and Simuliidae. The most abundant taxa at Tract stations include the Baetidae, Chironomidae, Plecoptera and Simuliidae. Low densities were observed at the lower Yellow Creek stations with the Chironomidae the most abundant taxa. At Station 19, the Gastropoda, Oligochaeta, Ceratopogonidae and Simuliidae were most abundant. Oligochaeta, Ephemeroptera, Hychropsychidae and Chironomidae dominated the benthos in the White River.

2.4.5 - Benthos Data

APPENDIX D-11-1

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

APPENDIX D-11 - 1

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975. (Organisms/m^3; data obtained from zooplankton collections.)

	Station Replicate					
	1 B	2 B	3 B	4 B	5 B	6 B Dry
Nematoda	1200	1200	1000	400		
Oligochaeta			280	50	100	
Arthropoda						
Insecta						
Coleoptera	20					
Collembola				50		
Ceratopogonidae	20					
Chironomidae	720	720	260	660	810	
Simuliidae	30	490	50	190		
Diptera Lavae (misc)		10	10	10		
Ephemeroptera	300	190		10	130	
Plecoptera		20				
Trichoptera	10			10		
Arachnoidae						
Acari					20	

RBOSP PROGRESS REPORT

APPENDIX D-11-1 (Continued)

	Station Replicate					
	7 B	8 B	9 B	10 B Dry	11 B Dry	12 B Dry
Nematoda	200		200			
Oligochaeta	30	80	210			
Arthropoda						
Insecta						
Coleoptera	10	10				
Collembola	10					
Ceratopogonidae			10			
Chironomidae	800	120	1010			
Simuliidae	100		80			
Diptera Larvae (misc)	30		20			
Ephemeroptera	10	10	60			
Plecoptera			20			

APPENDIX D-11-1 (Continued)

	Station Replicate					
	13	14	15	16	17	18
	B	B	B	B Dry	B	B
Nematoda	200	200			400	
Oligochaeta	110	360	1180			90
Arthropoda						
Insecta						
Coleoptera						
Collembola		10				2380
Diptera						
Ceratopogonidae		10				
Chironomidae	600	430	210		50	80
Simuliidae		10				
Ephemeroptera		130	20			10
Trichoptera		10	20			

APPENDIX D-11-1 (Continued)

Station	19	20	21	22	23	24
Replicate	B	B	B	B	B	B
Nematoda		1000			400	200
Oligochaeta	20	10		30	20	30
Arthropoda						
Insecta						
Coleopters		10				
Collembola		10				
Diptera						
Ceratopogonidae		30	20			
Chironomidae	160	250	70	100		240
Simuliidae	50	50	10	20		10
Diptera Larvae (misc)		10				
Ephemeroptera	10	40	30	40	10	20
Hemiptera						
Notonectidae				10		
Plecoptera						
Trichoptera	30	10			20	20
Arachnoidae						
Acari			20			

APPENDIX D-11-1 (Continued)

	Station Replicate					
	25 B	26 B	27 B	28 B	29 B	30 B
Nematoda	1000		200		200	
Oligochaeta	20	30	10	20	100	
Arthropoda						
Insecta						
Coleoptera						
Collembola					10	
Diptera						
Ceratopogonidae						
Chironomidae	80	280		10	20	70
Simuliidae						
Diptera Larvae (misc)						
Ephemeroptera	30	60	10		10	10
Plecoptera						
Trichoptera	30	10				30

APPENDIX D-11-1 (Continued)

	Station Replicate				
	31	32	33	34	35
	B	B	B	B	B
Nematoda	200		200		
Oligochaeta	10	60	50	80	20
Arthropoda					
Insecta					
Coleoptera	10				
Collembola					
Diptera					
Ceratopogonidae					
Chironomidae	190	100	30	30	30
Simuliidae			10	30	
Diptera Larvae (misc)					
Ephemeroptera		50		20	20
Plecoptera					
Trichoptera	20	30	10	20	10

APPENDIX D - 11 - 2

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975.

APPENDIX D - 11 - 2

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975. (Organisms/m^3; data obtained from zooplankton collections.)

	Station Replicate					
	1 A	1 B	2 A	2 B	3 A	3 B
Nematoda	2000	1200	540		1400	
Oligochaeta	1310	2740		60	240	40
Arthropoda						
Insecta						
Diptera						
Anthomyiidae				10		
Ceratopogonidae						20
Chironomidae	130	270	130	110	100	80
Diptera Larvae (misc)					20	10
Ephemeroptera	10	10	220	110		10
Plecoptera			20			
Trichoptera	10			10		

APPENDIX D - 11 - 2 (Continued)

	Station Replicate					
	4 A	4 B	5 A	5 B	6 A	6 B
Nematoda	400	200	80		Dry	Dry
Oligochaeta	260	140				
Arthropoda						
Insecta						
Diptera						
Ceratopogonidae			40			
Chironomidae	330	260	300	280		
Simuliidae			10	20		
Tipulidae	10					
Ephemeroptera	20	30	80	90		
Plecoptera		10				
Trichoptera			40	10		
Arachnoidea						
Acari			20			

APPENDIX D -11 -2 (Continued)

Station Replicate	7 A	7 B	8 A	8 B	9 A	9 B
Nematoda	600	200	200			200
Oligochaeta	30	80	1540	180	300	220
Arthropoda						
Insecta						
Coleoptera		10				10
Collembola		10				
Diptera						
Chironomidae	1650	1050	1110	700	810	1000
Simuliidae	10	20	10	30		30
Tipulidae			10			
Ephemeroptera	140	110	10		40	30
Plecoptera	10					
Trichoptera				20		

APPENDIX D - 11 - 2 (Continued)

	Station Replicate					
	10 A	10 B	11 A	11 B	12 A	12 B
	Dry		Dry			
Nematoda					2800	800
Oligochaeta					50	30
Arthropoda						
Insecta						
Coleoptera					10	
Diptera						
Chironomidae					290	40
Ephemeroptera					180	50

APPENDIX D -11 - 2 (Continued)

	Station Replicate					
	13 A	13 B	14 A	14 B	15 A	15 B
					Dry	
Nematoda			1400	2800		
Oligochaeta	60	50	1760	2140		
Arthropoda						
Insecta						
Coleoptera		10				
Diptera						
Chironomidae	580		370	80		
Culicidae			10	20		
Simuliidae	40			20		
Tipulidae	20					
Ephemeroptera		60	540	120		

APPENDIX D - 11 - 2 (Continued)

	Station Replicate					
	16 A	16 B	17 A	17 B	18 A	18 B
	Dry				Dry	
Nematoda			400			
Oligochaeta			700	450		
Arthropoda						
Insecta						
Coleoptera			100	200		
Diptera						
Chironomidae			147,500	191,750		
Simuliidae			150			
Tipulidae			50			
Diptera Larvae (misc)			950	1,250		
Ephemeroptera			150	400		

APPENDIX D -11 - 2 (Continued)

	Station Replicate					
	19 A	19 B	20 A	20 B	21 A	21 B
Oligochaeta	340	210	10		20	
Arthropoda						
Insecta						
Coleoptera	30	10	10	10		
Diptera						
Chironomidae	3300	1100	410	460	200	360
Simuliidae			90	20	20	10
Diptera Larvae (misc)		10		20		
Ephemeroptera	780	220	80	10	20	20
Arachnoidea						
Acari				10		

APPENDIX D - 11 - 2 (Continued)

	Station Replicate					
	22 A	22 B	23 A	23 B	24 A	24 B
Nematoda			800	200		400
Oligochaeta			160	110	160	30
Arthropoda						
Insecta						
Diptera						
Chironomidae	120	200	20			
Simuliidae		20				
Ephemeroptera	70			30		
Hemiptera						
Corixidae		30				

APPENDIX D - 11 - 2 (Continued)

Station	25	25	26	26	27	27
Replicate	A	B	A	B	A	B
Nematoda		200	200	800		800
Oligochaeta	110	30	140	440	190	170
Arthropoda						
Insecta						
Collembola						10
Diptera						
Chironomidae		20		10		
Ephemeroptera				10		
Plecoptera	10					

APPENDIX D - 11 - 2 (Continued)

Station Replicate	28 A	28 B	29 A	29 B	30 A	30 B
Nematoda		200		600	400	200
Oligochaeta	180	10	160	170	290	30
Arthropoda						
Insecta						
Diptera						
Chironomidae	10			10	10	
Ephemeroptera				10	20	

APPENDIX D - 11 - 2 (Continued)

	Station Replicate					
	31	31	32	32	33	33
	A	B	A	B	A	B
Nematoda		400		200	400	400
Oligochaeta	100	150	30	140	80	60
Arthropoda						
Insecta						
Diptera						
Chironomidae		10	10	10	10	
Trichoptera					10	

APPENDIX D -11 - 2 (Continued)

	Station Replicate			
	34 A	34 B	35 A	35 B
Nematoda	200	200	200	400
Oligochaeta	150	80	40	210
Arthropoda				
Insecta				
Diptera				
Chironomidae	10	10	20	
Ephemeroptera		10		
Trichoptera	20			

APPENDIX D - 12 - 1

MACROINVERTEBRATE TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975.

APPENDIX D-12-1

MACROINVERTEBRATE TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

- CNIDARIA
  - Hydrozoa
    - Hydroida
      - Hydridae
        - *Hydra* sp.

- NEMATODA

- MOLLUSCA
  - Gastropoda
    - Basommatophora
      - Hymnaeidae
        - *Lymnaea* sp.
      - Physidae
        - Unidentified
      - Planorbidae
        - Unidentified

- ANNELIDA
  - Hirudinea
    - Rhynchobdellida
      - Glossiphoniidae
        - *Helobdella stagnalis*
  - Oligochaeta
    - Haplotaxida
      - Enchytraeidae
      - Tubificidae
        - Unidentified sp. 1
        - *Ilyodrilus templetoni*
        - *Limnodrilus hoffmeisteri typical*
        - *Limnodrilus profundicula*
        - *Limnodrilus udekemianus*
        - *Rhyacodrilinae* sp.
        - *Rhyacodrilinae* sp. 1
        - *Tubifex tubifex*
        - Immatures with Cap. Chaetae sp.
        - Immatures without cap. chaetae sp.
      - Naididae
        - *Nais* sp.
        - *Nais behningi*
    - Lumbriculida
      - Lumbriculidae
        - Unidentified

- ARTHROPODA
  - Arachnoidea
    - Acari
  - Crustacea
    - Amphipoda

      - Talitridae
        - *Hyalella azteca*
- Insecta
  - Ephemeroptera
      - Baetidae
        - Unidentified larvae
        - *Baetis* sp. larvae
        - *Callibaetis* sp.
      - Heptageniidae
        - *Rhithrogena* sp.
      - Leptophlebiidae
        - Unidentified
      - Ephemerellidae
        - *Ephemerella* sp.
      - Tricorythidae
        - *Tricorythodes* sp.
      - Caenidae
        - *Caenis* sp.
  - Odonata
    - Zygoptera
      - Coenagrionidae
        - Unidentified
        - *Argia* sp.
    - Anisoptera
      - Gomphidae
        - Unidentified
  - Plecoptera
        - Unidentified
  - Hemiptera
      - Gerridae
        - *Gerris* sp.
      - Corixidae
        - *Cenocorixa* sp.
        - *Corisella tarsalis*
  - Coleoptera
        - Unidentified
      - Gyrinidae
        - Unidentified
      - Haliplidae
        - Unidentified
      - Dytiscidae
        - Unidentified
        - *Agabus* sp.
        - *Deronectes* sp.
        - *Rhantus* sp.
        - *Oreodytes* sp.
      - Hydrophilidae
        - Unidentified

- Elmidae
  - Unidentified
  - *Dubiraphia* sp.
- Trichoptera
  - Unidentified
  - Hydropsychidae
    - Unidentified
    - *Hydropsyche* sp.
    - *Cheumatopsyche* sp.
  - Hydroptilidae
    - Unidentified
    - *Hydroptila* sp.
  - Limnephilidae
    - Unidentified
  - Leptoceridae
    - Unidentified
  - Brachycentridae
    - Unidentified
    - *Brachycentrus* sp.
- Lepidoptera
  - Pyralidae
    - Unidentified
- Diptera
  - Unidentified
  - Tipulidae
    - Unidentified
    - *Dicranota* sp.
    - *Limnophila* sp.
    - *Holorusia* sp.
  - Psychodidae
    - Unidentified
  - Ceratopogonidae
    - Unidentified
  - Chironomidae
    - Unidentified
    - Tanypodinae
      - Unidentified
      - *Ablabesmyia* sp.
      - *Labrundinia* sp.
      - *Larsia* sp.
      - *Procladius* sp.
      - *Psectrotanypus* sp.
      - *Thienemannimyia* group sp.
    - Diamesinae
      - *Diamesinae* sp. 1
      - *Diamesa* sp.
      - *Monodiamesa* sp.
      - *Pseudodiamesa pertinax*

- Orthocladiinae
  - *Acricotopus* sp.
  - *Chaetocladius* sp.
  - *Corynoneura* sp.
  - *Cricotopus* sp.
  - *Cricotopus* *cricotopus*
  - *Cricotopus* *isocladius*
  - *Eukiefferiella* sp.
  - *Krenosmittia* sp.
  - *Orthocladius* sp.
  - *Paracladius* sp.
  - *Parakiefferiella* sp.
  - *Paraphaenocladius* sp.
  - *Parametriocnemus* sp.
  - *Pseudosmittia* sp.
  - *Thienemanniella* sp.
  - *Orthocladiinae* sp. 2
  - *Orthocladiinae* sp. 3
- Chironominae
  - *Chironomini* sp.
  - *Chironomus* sp. group 2
  - *Microtendipes* sp.
  - *Parachironomus* sp.
  - *Phaenopsectra* *phaenopsectra*
  - *Polypedilum* sp.
  - *Polypedilum* *tripodura* group
  - *Stictochironomus* sp.
  - *Tanytarsini* sp.
  - *Tanytarsus* sp.
  - *Cladotanytarsus* sp.
  - *Micropsectra* sp.
  - *Paratanytarsus* sp.
  - *Rheotanytarsus* sp.
  - *Zavrelia* sp.

Simuliidae
  - Unidentified
  - *Simulium* sp.

Stratiomyidae
  - Unidentified
  - *Euparyphus* sp.

Tabanidae
  - *Tabanus* sp.

Rhadionidae
  - *Atherix* *variegata*

Emphididae
  - Unidentified
  - *Clinocera* sp.

Anthomyiidae
  - *Limnophora* *aequifrons*
  - *Limnophora* *discreta*

Muscidae
    Unidentified

APPENDIX D - 12 - 2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975.

APPENDIX D-12-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

(Data are from surber samples are organisms/m^2.)

SITE = J1 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		18	36	18.00
ANNELIDA OLIGOCHAETA HAPLOTAXIDA ENCHYTRAEIDAE	72	18		30.00
ARTHROPODA INSECTA EPHEMEROPTERA BAETIDAE UNIDENTIFIED LARVAE	91	597	362	350.00
BAETIS SP LARVAE	344	54	434	277.33
COLEOPTERA UNIDENTIFIED LARVAE	54		36	30.00
DYTISCIDAE UNIDENTIFIED LARVAE	18	109	36	54.33
TRICHOPTERA UNIDENTIFIED LARVAE			36	12.00
LIMNEPHILIDAE UNIDENTIFIED LARVAE	18			6.00
DIPTERA UNIDENTIFIED PUPAE	18			6.00

APPENDIX D-12-2 (Continued)

SITE = C1 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE	127	54		60.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	18			6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			109	36.33
CORYNONEURA SP				
LARVAE		18	36	18.00
EUKIEFFERIELLA SP				
LARVAE	18	18	235	90.33
ORTHOCLADIUS SP				
LARVAE	36	36	272	114.67
PARAPHAENOCLADIUS SP				
LARVAE	109	91	434	211.33
CHIRONOMINAE				
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	18			6.00

APPENDIX D-12-2 (Continued)

SITE = 01 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE			72	24.00
MICROPSECTRA SP				
LARVAE	634	36	2480	1050.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	36	36	145	72.33
STRATIOMYIDAE				
UNIDENTIFIED				
LARVAE	36		18	18.00
EUPARYPHUS SP				
LARVAE	18			6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	217	127	272	205.33
LIMNOPHORA DISCRETA				
LARVAE		36		12.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE			18	6.00

APPENDIX D-12-2 (Continued)

```
SITE = 02      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


       TAXON                                                        REP A     REP B     REP C          MEAN

 NEMATODA                                                              18        18                    12.00

 ANNELIDA
     OLIGOCHAETA
         HAPLOTAXIDA
                 ENCHYTRAEIDAE                                         18        36        18          24.00

                 TUBIFICIDAE
                         IMMATURES WITH CAP. CHAETAE SP
                         --------- ---- ---  ------- --                          36                    12.00

 ARTHROPODA
     INSECTA
         EPHEMEROPTERA
                 BAETIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                   434       652      1303         796.33

                         BAETIS SP
                         ------ --
                             LARVAE                                  1050       362       290         567.33

         PLECOPTERA
                         UNIDENTIFIED
                         ------------
                             LARVAE                                              18        18          12.00

         COLEOPTERA
                 DYTISCIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                              18        72          30.00

         TRICHOPTERA
                         UNIDENTIFIED
                         ------------
                             LARVAE                                              36                    12.00

         DIPTERA
                 TIPULIDAE
                         DICRANOTA SP
                         --------- --
                             LARVAE                                    18        18        18          18.00
```

APPENDIX D-12-2 (Continued)

```
SITE = 12      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SUMBER        CONVERSION FACTOR APPLIED= 18.1


         TAXON                                                              REP A     REP B     REP C          MEAN


ARTHROPODA
    INSECTA
        DIPTERA
                TIPULIDAE
                        HOLORUSIA SP
                        --------- --
                            LARVAE                                           145       127        72          114.67

                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                      36                     12.00

                CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                                       18                      6.00

                    DIAMESINAE
                        DIAMESINAE SP. 1
                        ---------- --  -
                            LARVAE                                                                18            6.00

                        DIAMESA SP
                        ------- --
                            LARVAE                                           634       597       833          688.00

                        PSEUDODIAMESA PERTINAX
                        ------------- --------
                            LARVAE                                                      36        18           18.00

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                            72       163        18           84.33

                        CHAETOCLADIUS SP
                        ------------- --
                            LARVAE                                                                18            6.00

                        CORYNONEURA SP
                        ----------- --
                            LARVAE                                            91        18        36           48.33
```

APPENDIX D-12-2 (Continued)

```
SITE = C2      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                            REP A    REP B    REP C          MEAN


ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        EUKIEFFERIELLA SP
                        -------------- --
                            LARVAE                                        507      652      416          525.00

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                                        181      507      199          295.67

                        THIENEMANNIELLA SP
                        --------------- --
                            LARVAE                                                  18                     6.00

                    CHIRONOMINAE
                        MICROPSECTRA SP
                        ------------ --
                            LARVAE                                                  18                     6.00

                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                        380      815     1665          953.33

                ANTHOMYIIDAE
                        LIMNOPHORA AEQUIFRONS
                        ---------- ----------
                            LARVAE                                                           18            6.00

                        LIMNOPHORA DISCRETA
                        ---------- --------
                            LARVAE                                                           18            6.00
```

APPENDIX D-12-2 (Continued)

SITE = [illegible] SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	36	18		18.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		54		18.00
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP		18		6.00
NAIDIDAE				
NAIS SP	18	36	54	36.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		36	18	18.00
BAETIS SP				
LARVAE	18		18	12.00
COLEOPTERA				
UNIDENTIFIED				
LARVAE	18	109	145	90.67
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE	18			6.00

APPENDIX D-12-2 (Continued)

SITE = 03 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE		18		6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18		18	12.00
TANYPODINAE				
PLECTRODTANYPUS SP				
LARVAE			72	24.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	109	54	272	145.00
CORYNONEURA SP				
LARVAE	36			12.00
EUKIEFFERIELLA SP				
LARVAE	72		272	114.67
ORTHOCLADIUS SP				
LARVAE	869	1792	1937	1532.67
PARAKIEFFERIELLA SP				
LARVAE			72	24.00
PARAPHAENOCLADIUS SP				
LARVAE	2407	3982	4561	3650.00

APPENDIX D-12-2 (Continued)

SITE = [illegible]3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAMETRIOCNEMUS SP				
LARVAE			145	48.33
THIENEMANNIELLA SP				
LARVAE		54		18.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	36			12.00
TANYTARSUS SP				
LARVAE		54		18.00
MICROPSECTRA SP				
LARVAE	127		272	133.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	72	217	163	150.67
STRATIOMYIIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		36	18	18.00

APPENDIX D-12-2 (Continued)

```
SITE = 04      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

         TAXON                                                       REP A     REP B     REP C          MEAN

 NEMATODA                                                             109        36        91           78.67

 ANNELIDA
     OLIGOCHAETA
         HAPLOTAXIDA
                 ENCHYTRAEIDAE                                         18                                6.00

                 NAIDIDAE
                         NAIS SP
                         ---- --                                                           18            6.00

 ARTHROPODA
     INSECTA
         EPHEMEROPTERA
                 BAETIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                   905       326       815          682.00

                         BAETIS SP
                         ------ --
                             LARVAE                                   109        54       127           96.67

         COLEOPTERA
                         UNIDENTIFIED
                         ------------
                             LARVAE                                    36        18        18           24.00

                 DYTISCIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                    54                  54           36.00

                         RHANTUS SP
                         ------- --
                             LARVAE                                                        18            6.00

         DIPTERA
                 TIPULIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                   217                               72.33
```

APPENDIX D-12-2 (Continued)

SITE = T4 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	109	91	253	151.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	398	1122	724	748.00
TANYPODINAE				
PROCLADIUS SP				
LARVAE	145	127	54	108.67
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE		18		6.00
DIAMESA SP				
LARVAE	326	127	72	175.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	181	36	36	84.33
EUKIEFFERIELLA SP				
LARVAE	778	235	434	482.33
ORTHOCLADIUS SP				
LARVAE	2625	1520	1267	1804.00

APPENDIX D-12-2 (Continued)

SITE = 04   SITE DESC = HEADWATER STATION   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	833	145	344	440.67
THIENEMANNIELLA SP				
LARVAE		18		6.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	91	36		42.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	1611	778	2679	1689.33
TABANIDAE				
TABANUS SP				
LARVAE	18			6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	145	54	72	90.33
LIMNOPHORA DISCRETA				
LARVAE		18	36	18.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE		18		6.00

APPENDIX D-12-2 (Continued)

```
SITE = 05      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                     REP A    REP B    REP C         MEAN


NEMATODA                                                           5702     6462    16091       9418.33

MOLLUSCA
    GASTROPODA
        BASOMMATOPHORA
                LYMNAEIDAE
                        LYMNAEA SP
                        ------- --                                   18                           6.00

                PHYSIDAE
                        UNIDENTIFIED
                        ------------                                109      163      326        199.33

                PLANORBIDAE
                        UNIDENTIFIED
                        ------------                                 36       36       54         42.00

ANNELIDA
    HIRUDINEA
        RHYNCHOBDELLIDA
                GLOSSIPHONIIDAE
                        HELOBDELLA STAGNALIS
                        ---------- ---------                        145      163      181        163.00

    OLIGOCHAETA
        HAPLOTAXIDA
                TUBIFICIDAE
                        UNIDENTIFIED SP. 1
                        ------------ --  -                         2968     1068     1376       1804.00

                        ILYODRILUS TEMPLETONI
                        ---------- ----------                       326     2679     2932       1979.00

                        LIMNODRILUS HOFFMEISTERI
                        ----------- ------------
                            TYPICAL                                          181                 60.33

                        RHYACODRILINAE SP
                        -------------- --                           326                         108.67
```

APPENDIX D-12-2 (Continued)

SITE = 05 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
RHYACODRILINAE SP. 1	996	181	1177	784.67
TUBIFEX TUBIFEX		181		60.33
IMMATURES WITH CAP. CHAETAE SP	9430	24996	20344	18256.67
IMMATURES W/O CAP. CHAETAE SP	4778	8742	12724	8748.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	163	308	416	295.67
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	561	579	1014	718.00
INSECTA				
COLLEMBOLA	18			6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	181	18	272	157.00
BAETIS SP				
LARVAE	217	36	91	114.67

APPENDIX D-12-2 (Continued)

```
SITE = 05      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


         TAXON                                                               REP A     REP B     REP C          MEAN


  ARTHROPODA
      INSECTA
          EPHEMEROPTERA
                  BAETIDAE
                          CALLIBAETIS SP
                          ----------- --
                              LARVAE                                          145        18        36           66.33

                  CAENIDAE
                          CAENIS SP
                          ------ --
                              LARVAE                                           36       145        91           90.67

          ODONATA
              ZYGOPTERA
                  COENAGRIONIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                           72       181        91          114.67

          COLEOPTERA
                          UNIDENTIFIED
                          ------------
                              LARVAE                                                     36                     12.00

                  HALIPLIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                                               18            6.00

                  DYTISCIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                           18                 181           66.33

                          DERONECTES SP
                          ---------- --
                              ADULTS                                           36                  36           24.00

                          OREODYTES SP
                          --------- --
                              LARVAE                                           18                                6.00

          TRICHOPTERA
                          UNIDENTIFIED
                          ------------
                              LARVAE                                           36       127        91           84.67
```

APPENDIX D-12-2 (Continued)

```
SITE = C5      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                                    REP A    REP B    REP C        MEAN


ARTHROPODA
    INSECTA
        TRICHOPTERA
                HYDROPSYCHIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                   18       91       91         66.67

                HYDROPTILIDAE
                        HYDROPTILA SP
                        ---------- --
                            LARVAE                                                   72      217      453        247.33

        DIPTERA
                TIPULIDAE
                        HOLORUSIA SP
                        --------- --
                            LARVAE                                                   18                54         24.00

                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                 3910     5575     6607       5364.00

                        UNIDENTIFIED
                        ------------
                            PUPAE                                                                      18          6.00

                CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                                   199      489      360        356.00

                    TANYPODINAE
                        ABLABESMYIA SP
                        ----------- --
                            LARVAE                                                   54                            18.00

                        LABRUNDINIA SP
                        ----------- --
                            LARVAE                                                  217               127        114.67

                        PSECTROTANYPUS SP
                        -------------- --
                            LARVAE                                                   36                            12.00
```

APPENDIX D-12-2 (Continued)

```
SITE = [illegible]      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1

                                                                        REP A    REP B    REP C         MEAN
        TAXON


ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    TANYPODINAE
                        THIENEMANNIMYIA GROUP SP
                        --------------- ----- --
                            LARVAE                                        91       72      181         114.67

                    DIAMESINAE
                        DIAMESINAE SP. 1
                        ---------- --  -
                            LARVAE                                                          54           18.00

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                 145      127           90.67

                        CORYNONEURA SP
                        ----------- --
                            LARVAE                                                  72                   24.00

                        EUKIEFFERIELLA SP
                        -------------- --
                            LARVAE                                       398      905      597          633.33

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                                      1267     4308     2914         2829.67

                        THIENEMANNIELLA SP
                        --------------- --
                            LARVAE                                        54       72                    42.00

                    CHIRONOMINAE
                        TANYTARSUS SP
                        ---------- --
                            LARVAE                                                          54           18.00

                        MICROPSECTRA SP
                        ------------ --
                            LARVAE                                       905     1249     1901         1351.67
```

APPENDIX D-12-2 (Continued)

```
SITE = 05      SITE DESC = HEADWATER STATION     COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


         TAXON                                                          REP A     REP B     REP C          MEAN


ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    CHIRONOMINAE
                        PARATANYTARSUS SP
                        -------------- --
                            LARVAE                                       145       416       290         283.67

                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                      9358     31621     28327       23102.00

                        SIMULIUM SP
                        -------- --
                            LARVAE                                                 489                   163.00

                        SIMULIUM SP
                        -------- --
                            PUPAE                                         54       127       489         223.33

                ANTHOMYIIDAE
                        LIMNOPHORA AEQUIFRONS
                        ---------- ----------
                            LARVAE                                                  18        18          12.00

                MUSCIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                  18                     6.00
```

APPENDIX D-12-2 (Continued)

SITE = C7 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	36			12.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	91	18	109	72.67
ARTHROPODA				
INSECTA				
COLLEMBOLA		18		6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	290	91	615	332.00
BAETIS SP				
LARVAE	145	72	163	126.67
COLEOPTERA				
UNIDENTIFIED				
LARVAE	72		127	66.33
DYTISCIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
RHANTUS SP				
LARVAE			18	6.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE			18	6.00

APPENDIX D-12-2 (Continued)

SITE = 07 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
PSYCHODIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18	18		12.00
UNIDENTIFIED				
PUPAE			18	6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	272	54	127	151.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	18		18	12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36			12.00
EUKIEFFERIELLA SP				
LARVAE	36	18	91	48.33
ORTHOCLADIUS SP				
LARVAE	434	54	253	247.00
PARAPHAENOCLADIUS SP				
LARVAE	1195	163	579	645.67

APPENDIX D-12-2 (Continued)

```
SITE = 07      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


         TAXON                                                         REP A     REP B     REP C          MEAN

 ARTHROPODA
     INSECTA
         DIPTERA
                 CHIRONOMIDAE
                     ORTHOCLADIINAE
                         PARAMETRIOCNEMUS SP
                         ---------------- --
                             LARVAE                                      72                  54            42.00

                         ORTHOCLADIINAE SP. 3
                         -------------- --  -
                             LARVAE                                                          36            12.00

                     CHIRONOMINAE
                         PHAENOPSECTRA PHAENOPSECTRA
                         ------------- -------------
                             LARVAE                                                18                       6.00

                         MICROPSECTRA SP
                         ------------ --
                             LARVAE                                                18                       6.00

                 SIMULIIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                     181        36        18            78.33

                         SIMULIUM SP
                         -------- --
                             LARVAE                                      36                                12.00

                 EMPIDIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                      18                                 6.00

                 MUSCIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                      36        18                      18.00
```

APPENDIX D-12-2 (Continued)

```
SITE = 03      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

         TAXON                                                        REP A     REP B     REP C          MEAN

NEMATODA                                                               18                                 6.00

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                NAIDIDAE
                        NAIS SP
                        ---- --                                                  18                       6.00

        LUMBRICULIDA
                LUMBRICULIDAE
                        UNIDENTIFIED
                        ------------                                             18                       6.00

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                BAETIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                              398       362           253.33

                        BAETIS SP
                        ------ --
                            LARVAE                                    199        18       145           120.67

        COLEOPTERA
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                         18             6.00

                DYTISCIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                     18                                 6.00

        DIPTERA
                TIPULIDAE
                        HOLORUSIA SP
                        --------- --
                            LARVAE                                               18                       6.00

                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                         18             6.00
```

APPENDIX D-12-2 (Continued)

```
SITE = 08      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                        REP A     REP B     REP C          MEAN


ARTHROPODA
    INSECTA
        DIPTERA
            CHIRONOMIDAE
                UNIDENTIFIED
                ------------
                    PUPAE                                                                    18           6.00

                ORTHOCLADIINAE
                    EUKIEFFERIELLA SP
                    -------------- --
                        LARVAE                                         109       127       72           102.67

                    KRENOSMITTIA SP
                    ------------ --
                        LARVAE                                                   18                     6.00

                    ORTHOCLADIUS SP
                    ------------ --
                        LARVAE                                         163       272       235          223.33

                    PARAPHAENOCLADIUS SP
                    ----------------- --
                        LARVAE                                          36        72                    36.00

                    PARAMETRIOCNEMUS SP
                    ---------------- --
                        LARVAE                                          18                              6.00

                CHIRONOMINAE
                    MICROPSECTRA SP
                    ------------ --
                        LARVAE                                          18                 36           18.00

            SIMULIIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                              18                              6.00

            MUSCIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                              18                 54           24.00
```

APPENDIX D-12-2 (Continued)

SITE = 09 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	36		18	18.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	36	54	36	42.00
NAIDIDAE				
NAIS SP	181	18	72	90.33
ARTHROPODA				
INSECTA				
COLLEMBOLA		18		6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED LARVAE	742	2369	634	1255.00
BAETIS SP LARVAE	18	489	91	199.33
PLECOPTERA				
UNIDENTIFIED LARVAE		18		6.00
COLEOPTERA				
UNIDENTIFIED LARVAE	36	36		24.00
DYTISCIDAE				
UNIDENTIFIED LARVAE	18	54		24.00

APPENDIX D-12-2 (Continued)

```
SITE = 39      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                          REP A    REP B    REP C        MEAN


 ARTHROPODA
    INSECTA
       COLEOPTERA
             DYTISCIDAE
                   AGABUS SP
                   ------ --
                      LARVAE                                                             36           12.00

                   AGABUS SP
                   ------ --
                      ADULTS                                            18                             6.00

       DIPTERA
             TIPULIDAE
                   HOLORUSIA SP
                   --------- --
                      LARVAE                                            18       72                   30.00

             CERATOPOGONIDAE
                   UNIDENTIFIED
                   ------------
                      LARVAE                                                     18                    6.00

             CHIRONOMIDAE
                   UNIDENTIFIED
                   ------------
                      PUPAE                                                      72       54          42.00

                TANYPODINAE
                   ZAVRELIMYIA SP
                    ---------- --
                      LARVAE                                                     18                    6.00

                DIAMESINAE
                   DIAMESINAE SP. 1
                   ---------- --  -
                      LARVAE                                                     18       36          18.00

                ORTHOCLADIINAE
                   UNIDENTIFIED
                   ------------
                      LARVAE                                            72                            24.00

                   CHAETOCLADIUS SP
                   ------------- --
                      LARVAE                                                     18                    6.00
```

APPENDIX D-12-2 (Continued)

```
SITE = 09      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                            REP A     REP B     REP C          MEAN


 ARTHROPODA
     INSECTA
         DIPTERA
                  CHIRONOMIDAE
                      ORTHOCLADIINAE
                          CORYNONEURA SP
                          ----------- --
                              LARVAE                                       18        54        18          30.00

                          EUKIEFFERIELLA SP
                          -------------- --
                              LARVAE                                      253       362       109         241.33

                          ORTHOCLADIUS SP
                          ------------ --
                              LARVAE                                      634       652       127         471.00

                          PARAPHAENOCLADIUS SP
                          ----------------- --
                              LARVAE                                      235       507       163         301.67

                          PARAMETRIOCNEMUS SP
                          ---------------- --
                              LARVAE                                       54        91        36          60.33

                          PSEUDOSMITTIA SP
                          ------------- --
                              LARVAE                                                         18           6.00

                          THIENEMANNIELLA SP
                          --------------- --
                              LARVAE                                                 54                  18.00

                          ORTHOCLADIINAE SP. 3
                          -------------- --  -
                              LARVAE                                                 36                  12.00

                      CHIRONOMINAE
                          PHAENOPSECTRA PHAENOPSECTRA
                          ------------- -------------
                              LARVAE                                       18                  18          12.00
```

APPENDIX D-12-2 (Continued)

```
SITE = 09       SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                           REP A     REP B     REP C         MEAN


  ARTHROPODA
     INSECTA
        DIPTERA
             CHIRONOMIDAE
                CHIRONOMINAE
                   TANYTARSUS SP
                   ---------- --
                      LARVAE                                             54                  36           30.00

                   MICROPSECTRA SP
                   ------------ --
                      LARVAE                                             18        18                     12.00

             SIMULIIDAE
                   UNIDENTIFIED
                   ------------
                      LARVAE                                           1484       525       163          724.00

             ANTHOMYIIDAE
                   LIMNOPHORA AEQUIFRONS
                   ---------- ----------
                      LARVAE                                             72        18        18           36.00

                   LIMNOPHORA DISCRETA
                   ---------- --------
                      LARVAE                                                       36                     12.00

             MUSCIDAE
                   UNIDENTIFIED
                   ------------
                      LARVAE                                             54                  36           30.00
```

APPENDIX D-12-2 (Continued)

```
SITE = 13     SITE DESC = TRACT STATION     COLLECTION METHOD =  ELLIPSE SURBER     CONVERSION FACTOR APPLIED= 18.1


      TAXON                                                   REP A    REP B   , REP C       MEAN


ANNELIDA
  OLIGOCHAETA
    HAPLOTAXIDA
        TUBIFICIDAE
            IMMATURES W/O CAP. CHAETAE SP
            --------- - - ---  ------- --              18                                6.00

        NAIDIDAE
            NAIS SP
            ---- --                                            18       54              24.00

ARTHROPODA
  INSECTA
    COLLEMBOLA                                                 18                        6.00

    EPHEMEROPTERA
        BAETIDAE
            UNIDENTIFIED
            ------------
              LARVAE                                   36     109       18              54.33

    DIPTERA
        TIPULIDAE
            HOLORUSIA SP
            --------- --
              LARVAE                                                    18               6.00

        CHIRONOMIDAE
            UNIDENTIFIED
            ------------
              PUPAE                                    18      18                       12.00

          ORTHOCLADIINAE
            UNIDENTIFIED
            ------------
              LARVAE                                           18                        6.00

            EUKIEFFERIELLA SP
            -------------- --
              LARVAE                                   36                               12.00

            ORTHOCLADIUS SP
            ------------ --
              LARVAE                                   54      18       72              48.00
```

APPENDIX D-12-2 (Continued)

SITE = 13 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	36	18	18	24.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		36	18	18.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00

APPENDIX D-12-2 (Continued)

SITE = 14 SITE DESC = TRACT STATION COLLECTION METHOD = EKMAN DREDGE CONVERSION FACTOR APPLIED= 44.4

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	844	133	178	385.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP	44	44	44	44.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	44			14.67
INSECTA				
COLLEMBOLA		44		14.67
EPHEMEROPTERA				
BAETIDAE				
CALLIBAETIS SP				
LARVAE	89			29.67
HEMIPTERA				
CORIXIDAE				
CORISELLA TARSALIS				
~~LARVAE~~ (Adult)		44		14.67
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE		400	89	163.00
DERONECTES SP				
LARVAE		133	44	59.00
OREODYTES SP				
LARVAE	89			29.67

APPENDIX D-12-2 (Continued)

```
SITE = 14      SITE DESC = TRACT STATION        COLLECTION METHOD =  EKMAN DREDGE         CONVERSION FACTOR APPLIED= 44.4


         TAXON                                                          REP A     REP B     REP C        MEAN

ARTHROPODA
    INSECTA
        DIPTERA
                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                        133       311       533        325.67

                CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                                              44         14.67

                    TANYPODINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                  44                    14.67

                        PSECTROTANYPUS SP
                        -------------- --
                            LARVAE                                        311       444       488        414.33

                        THIENEMANNIMYIA GROUP SP
                        --------------- ----- --
                            LARVAE                                                  44                    14.67

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                         44                             14.67

                        ACRICOTOPUS SP
                        ----------- --
                            LARVAE                                         44                  89         44.33

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                                                 133         89         74.00

                    CHIRONOMINAE
                        MICROTENDIPES SP
                        ------------- --
                            LARVAE                                         44        89                   44.33
```

APPENDIX D-12-2 (Continued)

```
SITE = 14      SITE DESC = TRACT STATION       COLLECTION METHOD =  EKMAN DREDGE          CONVERSION FACTOR APPLIED= 44.4


          TAXON                                                        REP A     REP B     REP C          MEAN

 ARTHROPODA
     INSECTA
         DIPTERA
                 CHIRONOMIDAE
                     CHIRONOMINAE
                         TANYTARSINI SP
                         ----------- --
                             LARVAE                                                          44          14.67

                         TANYTARSUS SP
                         ---------- --
                             LARVAE                                     222                  89         103.67

                         MICROPSECTRA SP
                         ------------ --
                             LARVAE                                    4795      6438      6527        5920.00

                         PARATANYTARSUS SP
                         -------------- --
                             LARVAE                                                          44          14.67

                 SIMULIIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                      44                              14.67

                 EMPIDIDAE
                         CLINOCERA SP
                         --------- --
                             LARVAE                                                44                    14.67

                 ANTHOMYIIDAE
                         LIMNOPHORA AEQUIFRONS
                         ---------- ----------
                             LARVAE                                                44        89          44.33
```

APPENDIX D-12-2 (Continued)

```
D.T. # 15      SITE DESC - TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


         TAXON                                                          REP A     REP B     REP C          MEAN

NEMATODA                                                                                     18            6.00

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                ENCHYTRAEIDAE                                            36        18                     18.00

                TUBIFICIDAE
                        IMMATURES WITH CAP. CHAETAE SP
                        --------- ---- ---  ------- --                              18                      6.00

                NAIDIDAE
                        NAIS SP
                        ---- --                                          36                   36           24.00

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                TRICORYTHIDAE
                        TRICORYTHODES SP
                        ------------- --
                            LARVAE                                       18                                 6.00

        ODONATA
            ZYGOPTERA
                COENAGRIONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                       36        18         54           36.00

        COLEOPTERA
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                 18                       6.00

                DYTISCIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                 18                       6.00

        TRICHOPTERA
                HYDROPTILIDAE
                        HYDROPTILA SP
                        ---------- --
                            LARVAE                                       18                                 6.00
```

APPENDIX D-12-2 (Continued)

SITE = 15 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	145		36	60.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	18			6.00
DIAMESINAE				
DIAMESA SP				
LARVAE			18	6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	145	18		54.33
CRICOTOPUS CRICOTOPUS				
LARVAE	18			6.00
ORTHOCLADIUS SP				
LARVAE	1774	869	1339	1327.33
PARACLADIUS SP				
LARVAE		18	36	18.00
PARAPHAENOCLADIUS SP				
LARVAE	36	18		18.00

APPENDIX D-12-2 (Continued)

SITE = 15 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXA	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAMETRIOCNEMUS SP				
LARVAE	18			6.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	18		36	18.00
TANYTARSINI SP				
LARVAE			18	6.00
TANYTARSUS SP				
LARVAE	36		36	24.00
MICROPSECTRA SP				
LARVAE	36	72		36.00
RHEOTANYTARSUS SP				
LARVAE	18			6.00
SIMULIIDAE				
[illegible]				
LARVAE		18	18	12.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE			18	6.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE		18		6.00

APPENDIX D-12-2 (Continued)

SITE = 17 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18		36	18.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18		54	24.00
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED	18			6.00
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
LARVAE		18	54	24.00
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE	18			6.00
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	18			6.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE	18	36		18.00

APPENDIX D-12-2 (Continued)

```
SITE - 12      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


            TAXON                                                             REP A     REP B     REP C          MEAN


    ANNELIDA
       OLIGOCHAETA
          HAPLOTAXIDA                                                          18        18                      12.00
                ENCHYTRAEIDAE

                NAIDIDAE
                      NAIS SP                                                            18                       6.00
                      ---- --

    ARTHROPODA
       INSECTA
          DIPTERA
                CHIRONOMIDAE
                   TANYPODINAE
                      THIENEMANNIMYIA GROUP SP
                      --------------- ----- --                                           18                       6.00
                         LARVAE

                   CHIRONOMINAE
                      TANYTARSUS SP
                      ---------- --                                            18                                 6.00
                         LARVAE

                SIMULIIDAE
                      SIMULIUM SP
                      -------- --                                              18                                 6.00
                         PUPAE
```

APPENDIX D-12-2 (Continued)

SITE = 19 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
CNIDARIA				
HYDROZOA				
HYDROIDA				
HYDRIDAE				
HYDRA SP	18	18		12.00
NEMATODA			54	18.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1		18	18	12.00
LIMNODRILUS UDEKEMIANUS			18	6.00
IMMATURES WITH CAP. CHAETAE SP	36	72	416	174.67
IMMATURES W/O CAP. CHAETAE SP			18	6.00
ARTHROPODA				
ARACHNIDA				
ACARI	326	253	525	368.00
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	887	344	634	621.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
CALLIBAETIS SP				
LARVAE			18	6.00

APPENDIX D-12-2 (Continued)

```
SITE = 19      SITE DESC = YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                         REP A     REP B     REP C          MEAN

ARTHROPODA
   INSECTA
      EPHEMEROPTERA
            CAENIDAE
                  CAENIS SP
                  ------ --
                     LARVAE                                             54        18        18          30.00

      ODONATA
         ZYGOPTERA
            COENAGRIONIDAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                            109        18        18          48.33

                  ARGIA SP
                  ----- --
                     LARVAE                                                      163        36          66.33

      HEMIPTERA
            GERRIDAE
                  GERRIS SP
                  ------ --
                     LARVAE                                             18                               6.00

      COLEOPTERA
            DYTISCIDAE
                  DERONECTES SP
                  ---------- --
                     LARVAE                                                       18        54          24.00

                  DERONECTES SP
                  ---------- --
                     ADULTS                                             18                               6.00

            ELMIDAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                                                 18           6.00

                  UNIDENTIFIED
                  ------------
                     ADULTS                                             36                  18          18.00

      DIPTERA
            CERATOPOGONIDAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                             54        36        72          54.00
```

APPENDIX D-12-2 (Continued)

SITE = 19 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	18	36	24.00
TANYPODINAE				
ABLABESMYIA SP				
LARVAE			36	12.00
LARSIA SP				
LARVAE	18			6.00
THIENEMANNIMYIA GROUP SP				
LARVAE		54	54	36.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	127		72	66.33
CRICOTOPUS SP				
LARVAE		36		12.00
ORTHOCLADIUS CRICOTOPUS				
LARVAE	18	18		12.00
EUKIEFFERIELLA SP				
LARVAE		18		6.00
ORTHOCLADIUS SP				
LARVAE	362	109	308	259.67

APPENDIX D-12-2 (Continued)

SITE - [illegible]   SITE DESC - YELLOW CREEK   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PSEUDOSMITTIA SP				
LARVAE			18	6.00
ORTHOCLADIINAE SP. 2				
LARVAE	18	36	18	24.00
CHIRONOMINAE				
PARACHIRONOMUS SP				
LARVAE			36	12.00
TANYTARSUS SP				
LARVAE	18			6.00
MICROPSECTRA SP				
LARVAE	416	217	235	289.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	833	398	380	537.00
SIMULIUM SP				
LARVAE	18		18	12.00

APPENDIX D-12-2 (Continued)

SITE = 23　　SITE DESC = YELLOW CREEK　　COLLECTION METHOD = ELLIPSE SURBER　　CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	434		18	150.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1			18	6.00
LIMNODRILUS HOFFMEISTERI				
TYPICAL		18		6.00
LIMNODRILUS PROFUNDICOLA	54			18.00
LIMNODRILUS UDEKEMIANUS	18			6.00
IMMATURES W/O CAP. CHAETAE SP	1629	344	851	941.33
ARTHROPODA				
ARACHNIDA				
ACARI	18			6.00
INSECTA				
EPHEMEROPTERA				
CAENIDAE				
CAENIS SP				
LARVAE	18			6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
ARGIA SP				
LARVAE			18	6.00

APPENDIX D-12-2 (Continued)

```
[illegible]        SITE DESC - YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


      TAXON                                                                REP A    REP B    REP C       MEAN

  [illegible]
     [illegible]
        [illegible]
           [illegible]
              [illegible]
                    UNIDENTIFIED
                    ------------
                       LARVAE                                               36                          12.00

        HEMIPTERA
              CORIXIDAE
                    CENOCORIXA SP
                    ---------- --
                       LARVAE                                                                 36         12.00

        COLEOPTERA
                    UNIDENTIFIED
                    ------------
                       LARVAE                                               72                          24.00

              DYTISCIDAE
                    UNIDENTIFIED
                    ------------
                       LARVAE                                               18       18       18         18.00

                    [illegible]CTES SP
                    ---------- --
                       LARVAE                                               36       18       18         24.00

        [illegible]
              [illegible]
                    [illegible]
                    ------------
                       [illegible]                                        1140       36                 392.00

              [illegible]
                 [illegible]
                    UNIDENTIFIED
                    ------------
                       LARVAE                                               18                           6.00

                    [illegible] SP
                    ------------ --
                       LARVAE                                               91       54                 48.33

              [illegible]
                    UNIDENTIFIED
                    ------------
                       LARVAE                                              398       54       18        156.67
```

APPENDIX D-12-2 (Continued)

```
SITE = 20       SITE DESC = YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXA                                                      REP A    REP B    REP C          MEAN


 ARTHROPODA
    INSECTA
       DIPTERA
             SIMULIIDAE
                   SIMULIUM SP
                   -------- --
                      PUPAE                                           54                            18.00
```

APPENDIX D-12-2 (Continued)

```
[illegible] - 12     SITE DESC = YELLOW CREEK      COLLECTION METHOD =  ELLIPSE SURBER      CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                     REP A    REP B    REP C        MEAN

NEMATODA                                                            36                18         18.00

ANNELIDA
   OLIGOCHAETA
      HAPLOTAXIDA
            ENCHYTRAEIDAE                                           18                            6.00

            TUBIFICIDAE
                  IMMATURES W/O CAP. CHAETAE SP
                  --------- - - ---  ------- --                              18       36         18.00

            NAIDIDAE
                  NAIS SP
                  ---- --                                           18                36         18.00

 ARTHROPODA
   ARACHNOIDEA
      ACARI                                                        109       18      290        139.00

   INSECTA
      COLEOPTERA
                  UNIDENTIFIED
                  ------------
                     LARVAE                                         18                            6.00

            DYTISCIDAE
                  [illegible] SP
                  ---------- --
                     LARVAE                                                  36                  12.00

      DIPTERA
            CERATOPOGONIDAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                         91       36       72         66.33

            CHIRONOMIDAE
               TANYPODINAE
                  THIENEMANNIMYIA GROUP SP
                  --------------- ----- --
                     LARVAE                                         18                18         12.00
```

APPENDIX D-12-2 (Continued)

SITE = 21　　SITE DESC = YELLOW CREEK　　COLLECTION METHOD = ELLIPSE SURBER　　CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	72	54	199	108.33
CRICOTOPUS SP				
LARVAE		91	109	66.67
CRICOTOPUS CRICOTOPUS				
LARVAE		36	18	18.00
ORTHOCLADIUS SP				
LARVAE	36	54	18	36.00
PARAPHAENOCLADIUS SP				
LARVAE		18	18	12.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	561	290	688	513.00
SIMULIUM SP				
PUPAE	109	54	163	108.67

APPENDIX D-12-2 (Continued)

```
[illegible]      SITE DESC - YELLOW CREEK      COLLECTION METHOD =  ELLIPSE SURBER      CONVERSION FACTOR APPLIED= 18.1

     TAXON                                                   REP A    REP B    REP C        MEAN

 [illegible]
   [illegible]
     [illegible]
         [illegible]
             [illegible]RILUS [illegible]DICULA
             -----------  -----------                                18                   6.00

             IMMATURES W/O CAP. CHAETAE SP
             --------- - - ---  ------- --                 109      688       91          296.00

         NAIDIDAE
             NAIS SP
             ---- --                                        54       72       18           48.00

 [illegible]
   INSECTA
     EPHEMEROPTERA
         TRICORYTHIDAE
             TRICORYTHODES SP
             ------------- --
                LARVAE                                               18                    6.00

     [illegible]
       [illegible]
         [illegible]
             UNIDENTIFIED
             ------------
                LARVAE                                      16                             6.00

       [illegible]
         [illegible]
             UNIDENTIFIED
             ------------
                LARVAE                                               18                    6.00

     [illegible]
             UNIDENTIFIED
             ------------
                LARVAE                                      18                18          12.00

         [illegible]
             [illegible]CTES SP
             ---------- --
                LARVAE                                      18       18       18          18.00

     [illegible]
         [illegible]
             UNIDENTIFIED
             ------------
                LARVAE                                      18       72                   30.00
```

APPENDIX D-12-2 (Continued)

```
SITE - L2      SITE DESC = YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                          REP A    REP B    REP C        MEAN

 ARTHROPODA
    INSECTA
       DIPTERA
            CHIRONOMIDAE
               ORTHOCLADIINAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                             54       36                   30.00

                  CRICOTOPUS SP
                  ---------- --
                     LARVAE                                             18                             6.00

                  CRICOTOPUS CRICOTOPUS
                  ---------- ----------
                     LARVAE                                             18      109                   42.33

                  CRICOTOPUS ISOCLADIUS
                  ---------- ----------
                     LARVAE                                                      18                    6.00

                  ORTHOCLADIUS SP
                  ------------ --
                     LARVAE                                             72       36                   36.00

                  PARAPHAENOCLADIUS SP
                  ----------------- --
                     LARVAE                                             18                             6.00

            SIMULIIDAE
                  UNIDENTIFIED
                  ----- ------
                     LARVAE                                                               18           6.00
```

APPENDIX D-12-2 (Continued)

```
[illegible]   [illegible]   [illegible] & UPPER WHITE RIVER   COLLECTION METHOD - TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

      TAXA                                                          REP A    REP B    REP C          MEAN

  [illegible]                                                        20                              6.67
   [illegible]
      [illegible]
        [illegible]
              [illegible]
                     UNIDENTIFIED
                     ------------
                        LARVAE                                                20                     6.67

        DIPTERA
              TIPULIDAE
                     [illegible] SP
                     ---------- --
                        LARVAE                                                20                     6.67

              CHIRONOMIDAE
                     UNIDENTIFIED
                     ------------
                        PUPAE                                        20                              6.67

                 [illegible]
                     POLYPEDILUM S
                     ------------ --
                        LARVAE                                       20                              6.67
```

APPENDIX D-12-2 (Continued)

SITE - 24 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		39	20	19.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20	59	26.33
LIMNODRILUS UDEKEMIANUS			20	6.67
IMMATURES WITH CAP. CHAETAE SP			39	13.00
IMMATURES W/O CAP. CHAETAE SP	20	78	117	71.67
NAIDIDAE				
NAIS SP	59			19.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		59		19.67
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
[illegible]				
LARVAE		20	20	13.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20			6.67

APPENDIX D-12-2 (Continued)

```
[illegible]       SITE [illegible] - UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

       TAXA                                                           REP A    REP B    REP C       MEAN

  [illegible]
    [illegible]
       EPHEMEROPTERA
            TRICORYTHIDAE
                 TRICORYTHODES SP
                 ------------- --
                      LARVAE                                                             20           6.67

       COLEOPTERA
            ELMIDAE
                 UNIDENTIFIED
                 ------------
                      LARVAE                                                    20                    6.67

       TRICHOPTERA
            HYDROPSYCHIDAE
                 UNIDENTIFIED
                 ------------
                      LARVAE                                                    20                    6.67

                 HYDROPSYCHE SP
                 ----------- --
                      LARVAE                                           20       59       59          40.00

                 HYDROPSYCHE SP
                 ----------- --
                      PUPAE                                            59       20                   26.33

                 CHEUMATOPSYCHE SP
                 -------------- --
                      [illegible]                                               20                    6.67

            BRACHYCENTRIDAE
                 BRACHYCENTRUS SP
                 ------------- --
                      LARVAE                                                    20                    6.67

       LEPIDOPTERA
            PYRALIDAE
                 UNIDENTIFIED
                 ------------
                      LARVAE                                                    20                    6.67

       DIPTERA
            TIPULIDAE
                 LIMNOPHILA SP
                 ---------- --
                      LARVAE                                                    20       20          13.33
```

APPENDIX D-12-2 (Continued)

```
SITE = 24      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

        TAXA                                                          REP A     REP B     REP C         MEAN

ARTHROPODA
    INSECTA
        DIPTERA
            CERATOPOGONIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                                        20                     6.67

            CHIRONOMIDAE
                UNIDENTIFIED
                ------------
                    PUPAE                                             20                                 6.67

                ORTHOCLADIINAE
                UNIDENTIFIED
                ORTHOCLADIUS SP
                ------------ --
                    LARVAE                                                        20                     6.67

                CHIRONOMINAE
                POLYPEDILUM SP
                ----------- --
                    LARVAE                                                        20        20          13.33

                CLADOTANYTARSUS SP
                --------------- --
                    LARVAE                                            20          20                    13.33

                RHEOTANYTARSUS SP
                -------------- --
                    LARVAE                                            20                                 6.67

            RHAGIONIDAE
                ATHERIX VARIEGATA
                ------- ---------
                    LARVAE                                                        20        39          19.67

            MUSCIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                                        20                     6.67
```

APPENDIX D-12-2 (Continued)

[illegible] UPPER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39	39		26.00
[illegible]				
[illegible]				
ENCHYTRAEIDAE	20			6.67
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20			6.67
LIMNODRILUS UDEKEMIANUS	20		20	13.33
IMMATURES WITH CAP. CHAETAE SP		20	20	13.33
IMMATURES W/O CAP. CHAETAE SP	117	59	137	104.33
NAIDIDAE				
NAIS SP	59			19.67
NAIS BEHNINGI			39	13.00
[illegible]	20			6.67

APPENDIX D-12-2 (Continued)

```
SITE = [illegible]      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

          TAXA                                                                  REP A     REP B     REP C          MEAN

  ARTHROPODA
      INSECTA
          EPHEMEROPTERA
                  HEPTAGENIIDAE
                          RHITHROGENA SP
                          ----------- --
                              LARVAE                                                                  20            6.67

                  EPHEMERELLIDAE
                          EPHEMERELLA SP
                          ----------- --
                              LARVAE                                             20                   20           13.33

          TRICHOPTERA
                  HYDROPSYCHIDAE
                          HYDROPSYCHE SP
                          ----------- --
                              LARVAE                                             39        20         39           32.67

                          CHEUMATOPSYCHE SP
                          -------------- --
                              LARVAE                                             20                                 6.67

                  HYDROPTILIDAE
                          HYDROPTILA SP
                          ---------- --
                              LARVAE                                             20                                 6.67

                  LEPTOCERIDAE
                          UNIDENTIFIED
                          ------------
                              PUPAE                                              20                   20           13.33

          DIPTERA
                   TIPULIDAE
                          LIMNOPHILA SP
                          ---------- --
                              LARVAE                                             20                                 6.67

                  CHIRONOMIDAE
                          UNIDENTIFIED
                          ------------
                              PUPAE                                                        20         20           13.33

                     ORTHOCLADIINAE
                          CRICOTOPUS CRICOTOPUS
                          ---------- ----------
                              LARVAE                                             20                                 6.67
```

APPENDIX D-12-2 (Continued)

SITE - [illegible]   SITE DESC - UPPER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	20			6.67
CHIRONOMINAE				
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20			6.67
CLADOTANYTARSUS SP				
LARVAE	20	20	20	20.00

APPENDIX D-12-2 (Continued)

SITE = 27 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20		6.67
IMMATURES WITH CAP. CHAETAE SP	20			6.67
IMMATURES W/O CAP. CHAETAE SP	39	20	20	26.33
ARTHROPODA				
INSECTA				
COLEOPTERA				
ELMIDAE				
DUBIRAPHIA SP				
LARVAE			20	6.67
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		39		13.00
DIAMESINAE				
PRODIAMESA SP				
LARVAE		20		6.67
CHIRONOMINAE				
CHIRONOMUS SP. GROUP 2				
LARVAE	20			6.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20			6.67

APPENDIX D-12-2 (Continued)

[illegible] SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39			13.00
ANNELIDA				
OLIGOCHAETA				
[illegible]				
TUBIFICIDAE				
ILYODRILUS TEMPLETONI	20			6.67
LIMNODRILUS HOFFMEISTERI TYPICAL	78	137	176	130.33
LIMNODRILUS PROFUNDICOLA			20	6.67
LIMNODRILUS UDEKEMIANUS	20	20	39	26.33
TUBIFEX TUBIFEX	20	20	20	20.00
IMMATURES WITH CAP. CHAETAE SP	39	20	39	32.67
IMMATURES W/O CAP. CHAETAE SP	234	312	507	351.00
NAIDIDAE				
NAIS SP	39	20		19.67

APPENDIX D-12-2 (Continued)

SITE = 28 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
ARACHNOIDEA				
ACARI	20		20	13.33
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE		20		6.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE		20		6.67
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		20		6.67
CRICOTOPUS SP				
LARVAE	20	39		19.67
CRICOTOPUS CRICOTOPUS				
LARVAE		20		6.67
ORTHOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
[illegible] SP				
LARVAE	20			6.67
CHIRONOMUS SP. GROUP 2				
LARVAE		20	39	19.67

APPENDIX D-12-2 (Continued)

```
          SITE [illegible] - [illegible]          COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


          TAXON                                                      REP A    REP B    REP C         MEAN

    [illegible]
           DIPTERA
              CHIRONOMIDAE
                 CHIRONOMINAE
                    POLYPEDILUM SP
                    -------------- --
                       LARVAE                                                           39           13.00

                    STICTOCHIRONOMUS SP
                    ------------------- --
                       LARVAE                                         20                20           13.33

                    TANYTARSUS SP
                    ------------- --
                       LARVAE                                                  20                     6.67
```

APPENDIX D-12-2 (Continued)

```
SITE = 29      SITE DESC = CONFLUENCE        COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


          TAXON                                                        REP A     REP B     REP C          MEAN


 ANNELIDA
    OLIGOCHAETA
       HAPLOTAXIDA
             ENCHYTRAEIDAE                                                                  20             6.67

             TUBIFICIDAE
                   LIMNODRILUS HOFFMEISTERI
                   ----------- ------------
                       TYPICAL                                          20                                 6.67

                   TUBIFEX TUBIFEX
                   ------- -------                                      20                                 6.67

                   IMMATURES WITH CAP. CHAETAE SP
                   --------- ---- ---  ------- --                     1014                 117           377.00

                   IMMATURES W/O CAP. CHAETAE SP
                   --------- - - ---  ------- --                      1794                 332           708.67
 ARTHROPODA
    ARACHNIDA
       ACARI                                                                                20             6.67

    INSECTA
       EPHEMEROPTERA
             HEPTAGENIIDAE
                   RHITHROGENA SP
                   ----------- --
                       LARVAE                                           59                                19.67

       [illegible]
             [illegible]
                   [illegible]
                   ------------
                       LARVAE                                           20                                 6.67

       DIPTERA
             TIPULIDAE
                   LIMNOPHILA SP
                   ---------- --
                       LARVAE                                           20                                 6.67
```

APPENDIX D-12-2 (Continued)

```
SITE = 29      SITE DESC = CONFLUENCE          COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


          TAXA                                                              REP A     REP B     REP C          MEAN


   [illegible]
      [illegible]
         DIPTERA
              CERATOPOGONIDAE
                   UNIDENTIFIED
                   ------------
                      LARVAE                                                  20                              6.67

              CHIRONOMIDAE
                   UNIDENTIFIED
                   ------------
                      PUPAE                                                   20                              6.67

                CHIRONOMINAE
                   POLYPEDILUM TRIPODURA GRP.
                   ----------- --------- ---
                      LARVAE                                                  78                             26.00
```

APPENDIX D-12-2 (Continued)

SITE = 30 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	20	20	20.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	39			13.00
NAIDIDAE				
NAIS SP	20			6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20			6.67
INSECTA				
COLLEMBOLA	20	20		13.33
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		20		6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20	39		19.67
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
PUPAE		20	20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE			20	6.67

APPENDIX D-12-2 (Continued)

```
SITE = 10        SITE DESC = LOWER WHITE RIVER     COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

        TAXON                                                            REP A     REP B     REP C          MEAN

    ARTHROPODA
       INSECTA
          DIPTERA
                CHIRONOMIDAE
                      UNIDENTIFIED
                      ------------
                         PUPAE                                                      20                      6.67

                   ORTHOCLADIINAE
                      UNIDENTIFIED
                      ------------
                         LARVAE                                         20                                  6.67
```

APPENDIX D-12-2 (Continued)

SITE = 32   SITE DESC = LOWER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXA	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			20	6.67
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	59	20		26.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39		19.67
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE		20	39	19.67
TRICHOPTERA				
HYDROPSYCHIDAE				
CHEUMATOPSYCHE SP				
LARVAE		20		6.67
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		20		6.67
DIAMESINAE				
[illegible] SP				
LARVAE			20	6.67
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE	20	20		13.33

APPENDIX D-12-2 (Continued)

```
[illegible]      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

          TAXON                                                           REP A    REP B    REP C        MEAN

  NEMATA                                                                            20                   6.67

  ANNELIDA
      OLIGOCHAETA
          TUBIFICIDA
              TUBIFICIDAE
                  IMMATURE W/O CAP. CHAETAE SP
                  -------- - - ---  ------- --                   39                                     13.00

  ARTHROPODA
      INSECTA
          EPHEMEROPTERA
              EPHEMERELLIDAE
                  EPHEMERELLA SP
                  ----------- --
                      LARVAE                                                       39                   13.00

              TRICORYTHIDAE
                  TRICORYTHODES SP
                  ------------- --
                      LARVAE                                     20                                      6.67

          TRICHOPTERA
              HYDROPSYCHIDAE
                  HYDROPSYCHE SP
                  ----------- --
                      LARVAE                                                       20                   6.67

              BRACHYCENTRIDAE
                  UNIDENTIFIED
                  ------------
                      LARVAE                                                                20           6.67

          DIPTERA
              TIPULIDAE
                  LIMNOPHILA SP
                  ---------- --
                      LARVAE                                     39                20                   19.67

              CHIRONOMIDAE
                  UNIDENTIFIED
                  ------------
                      PUPAE                                      20                20       20          20.00

                CHIRONOMINAE
                  POLYPEDILUM TRIPODURA GRP.
                  ----------- --------- ---
                      LARVAE                                                                20           6.67
```

APPENDIX D-12-2 (Continued)

SITE = 34 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP			20	6.67
ARTHROPODA				
INSECTA				
COLLEMBOLA	20			6.67
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	20		98	39.33
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE			20	6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67

APPENDIX D-12-2 (Continued)

SITE = [illegible]   SITE DESC = LOWER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	59	39	39.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	20			6.67
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	39	39	20	32.67
ARTHROPODA				
ARACHNIDA				
ACARI		20		6.67
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	98		59	52.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE		20		6.67
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	20		

APPENDIX D-12-2 (Continued)

```
SITE = 25      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  D-FRAME             CONVERSION FACTOR APPLIED=  1.0

          TAXON                                                          REP A    REP B    REP C       MEAN

  ANNELIDA
      OLIGOCHAETA
                     UNIDENTIFIED
                     ------------                                                            1          .33

  ARTHROPODA
      INSECTA
          EPHEMEROPTERA
                 HEPTAGENIIDAE
                     RHITHROGENA SP
                     ----------- --
                         LARVAE                                            8        1        3         4.00

                 EPHEMERELLIDAE
                     EPHEMERELLA SP
                     ----------- --
                         LARVAE                                            4                 4         2.67

                 TRICORYTHIDAE
                     TRICORYTHODES SP
                     ------------- --
                         LARVAE                                                              1          .33

          COLEOPTERA
                 ELMIDAE
                     ZAITZEVIA SP
                      --- ---- --
                         LARVAE                                            1                            .33

          TRICHOPTERA
                 HYDROPSYCHIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                                     1        3         1.33

                     HYDROPSYCHE SP
                     ----------- --
                         LARVAE                                            1        1        4         2.00

                     [illegible] SP
                     ----------- --
                         PUPAE                                             1                 2         1.00

                     CHEUMATOPSYCHE SP
                     -------------- --
                         LARVAE                                            1                 1          .67
```

APPENDIX D-12-2 (Continued)

[illegible] SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR APPLIED= 1.0

TAXON	REP A	REP B	REP C	MEAN
[illegible]				
INSECTA				
TRICHOPTERA				
BRACHYCENTRIDAE				
UNIDENTIFIED				
LARVAE	3		1	1.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	1		1	.67
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE	1	2		1.00
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	1		1	.67

APPENDIX D-12-2 (Continued)

```
SITE = 01      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  D-FRAME            CONVERSION FACTOR APPLIED=  1.0


          TAXON                                                    REP A     REP B     REP C          MEAN

  NEMATODA                                                           2         1         4            2.33

  ANNELIDA
      OLIGOCHAETA
                        UNIDENTIFIED
                        ------------                                           2         1            1.00

  ARTHROPODA
      INSECTA
          EPHEMEROPTERA
                  HEPTAGENIIDAE
                        RHITHROGENA SP
                        ----------- --
                             LARVAE                                  2                   1            1.00

                  EPHEMERELLIDAE
                        EPHEMERELLA SP
                        ----------- --
                             LARVAE                                  2                                 .67

          COLEOPTERA
                  ELMIDAE
                        ZAITZEVIA SP
                         --- ---- --
                             LARVAE                                                      1             .33

          TRICHOPTERA
                  HYDROPSYCHIDAE
                        HYDROPSYCHE SP
                        ----------- --
                             LARVAE                                  1         1                       .67

          DIPTERA
                  TIPULIDAE
                        [illegible] SP
                        ---------- --
                             LARVAE                                  1                                 .33

                  CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                             LARVAE                                  1                                 .33

                        UNIDENTIFIED
                        ------------
                             PUPAE                                   1                                 .33
```

APPENDIX D - 13 - 1

MACROINVERTEBRATE TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-13-1

MACROINVERTEBRATE TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

- Nematoda

- Mollusca
  - Gastropoda
    - Physidae
      - *Physa*
    - Lymnaeidae
      - *Lymnaea Lamarck*
    - Planorbidae

- Annelida
  - Hirudinea
    - Rhynchobdellida
    - Glossiphoniidae
      - *Helobdella stagnalis* (Linnaeus)

- Annelida
  - Oligochaeta
    - Enchytraeidae
    - *Haplotaxidae*
      - *Haplotaxis*
    - Naididae
      - *Chaetogaster diaphanus*
      - *Nais behingi*
      - *Nais elinguis*
      - *Nais* sp.
      - *Pristina*
    - Tubificidae
      - *Limnodrilus hoffmeisteri*
      - *Limnodrilus spiralis*
      - *Limnodrilus udekemianus*
    - Immature Tubificidae with capilliform chaetae
    - Immature Tubificidae without capilliform chaetae

- Arthropoda
  - Arachnoidae
    - Acari
  - Crustacea
    - Amphipoda
    - Talitridae
    - *Hyalella azteca* (Saussure)

- Insecta
  - Coblembola
  - Ephemeroptera
    - Baetidae
      - *Baetis* Leach
      - *Callibaetis* Eaton

    - *Centroptilum*
    - *Dactylobaetis*
  - Heptageniidae
    - *Heptagenia*
    - *Rhithrogena* Eaton
  - Leptophlebiidae
    - *Choroterpes*
    - *Traverella albertana*
  - Ephemerellidae
    - *Ephemerella* Walsh
  - Tricorythidae
    - *Tricorythodes* Ulmer
  - Caenidae
    - Caenis
  - Polymitarcidae
    - *Ephoron*
- Odonata
  - Zygoptera
    - Coenagrionidae
      - *Argia*
  - Anisoptera
    - Gomphidae
    - Plecoptera

- Hemiptera
  - Gerridae
    - *Gerris*
  - Corixidae

- Coleoptera
  - Hydraenidae
    - *Oehthebius*
  - Dytiscidae
    - *Agabus*
    - *Deronectes* Sharp
  - Hydrophilidae
    - *Helophorus*
  - Elmidae
    - *Microcylloepus*
    - *Microcylloepus pusillus*
  - Dryopidae
    - *Helichus*

- Trichoptera
  - Rhyacophilidae
  - Glossomatinae
  - Hydropsychidae
    - *Cheumatopsyche*
    - *Hydropsyche* Pictet
  - Hydroptilidae
    - *Agraylea*
    - *Hydroptila* Dalman
    - *Mayatrichia*
  - Limnephilidae
  - Leptoceridae
    - *Oecetis*

- Brachycentridae

- Lepidoptera
  - Pyralidae

- Diptera
  - Tipulidae
    - *Dicranota*
    - *Holorusia* Loew
    - *Limnophila*
    - *Ormosia*
    - *Pedicia*
  - Ceratopogonidae
  - Chironomidae
  - Simuliidae
    - *Simulium arcticum*
    - *S. argus* Williston
    - *S. vittatum* Zetterstedt
  - Stratiomyidae
    - *Euparyphus* Gerstaecker
  - Tabanidae
    - *Tabanus*
  - Rhagionidae
    - *Atherix variegata* Walker
  - Empididae
  - Muscidae
  - Anthomyiidae
    - *Limnophora aequifrons* Stein
  - Psychodidae
    - *Pericoma*
  - Dixidae
    - *Dixa*
  - Culicidae
  - Thaumaleidae
  - Ceratopogonidae
  - Chironomidae
    - Tanypodinae
    - Pentaneurini
    - *Ablabesmyia*
    - *Labrundinia*
    - *Larsia*
    - *Procladius psilotanypus*
    - *Psectrotanypus*
    - *Psectrotanypus* sp. 2
    - *Thienemannimyia* group
  - Diamesinae
    - *Diamesa*
    - *Monodiamesa*
    - *Odontomesa*
  - Orthocladiinae
    - *Corynoneura*
    - *Cricotopus*
    - *Cricopopus* (Cricotopus)

APPENDIX D-13-1 (Continued)

Cricotopus (*Cricotopus*) *bicinctus*
Cricotopus (Cricotopus) trifascia
Cricotopus (Isocladius)
Cricotopus (Isocladius) of tricinctus

Orthocladiinae
Eukiefferiella
Metriocnemus
Microcricotopus
Orthocladius
Paracladins
Parakiefferiella
Paraphaenocladius
Parametriocnemus
Psectrocladius
Pseudomittia
Thienemanniella
Smittia
Orthocladiinae sp. 1
Orthocladiinae sp. 2
Orthocladiinae sp. 4
Chironominae
Chironomini
Chironomus
Chironomind sp. 1

RBOSP PROGRESS REPORT

APPENDIX D - 13 - 2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-13-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975. (Data from surber samples are organisms/m^2.)

SITE = 01   SITE DESC = HEADWATER STATION   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			72	24.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18		6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	326	362	109	265.67
BAETIS SP				
LARVAE	72	18	18	36.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE		36		12.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
TRICHOPTERA				
LIMNEPHILIDAE				
UNIDENTIFIED				
LARVAE	36	18		18.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE	36			12.00
PEDICIA SP				
LARVAE	18		54	24.00

RBOSP PROGRESS REPORT

8-20-75

APPENDIX D-13-2 (Continued)

SITE = 01 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	109	54	272	145.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36			12.00
CORYNONEURA SP				
LARVAE			54	18.00
EUKIEFFERIELLA SP				
LARVAE	91	344	54	163.00
ORTHOCLADIUS SP				
LARVAE	36	36		24.00
PARACLADIUS SP				
LARVAE		36		12.00
PARAPHAENOCLADIUS SP				
LARVAE	2661	2643	5484	3596.00
PARAMETRIOCNEMUS SP				
LARVAE	217	344	326	295.67

APPENDIX D-13-2 (Continued)

```
SITE = 01     SITE DESC - HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 10.1

        TAXON                                                      REP A    REP B    REP C        MEAN

ARTHROPODA
    INSECTA
        DIPTERA
            CHIRONOMIDAE
                CHIRONOMINAE
                    MICROPSECTRA SP
                    ------------ --
                        LARVAE                                       54                54         36.00

            SIMULIIDAE
                    UNIDENTIFIED
                    ------------
                        LARVAE                                                18                   6.00

            STRATIOMYIIDAE
                    EUPARYPHUS SP
                    ---------- --
                        LARVAE                                      416      398      272        362.00

            ANTHOMYIIDAE
                    LIMNOPHORA DISCRETA
                    ---------- --------
                        LARVAE                                                         54         18.00

            MUSCIDAE
                    UNIDENTIFIED
                    ------------
                        LARVAE                                                18                   6.00
```

APPENDIX D-13-2 (Continued)

SITE = 02 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXA	REP A	REP B	REP C	MEAN
NEMATODA	18			6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP		18		6.00
IMMATURES W/O CAP. CHAETAE SP	36			12.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	145	163	579	295.67
BAETIS SP				
LARVAE	109	398	181	229.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	416	109	507	344.00
TRICHOPTERA				
LIMNEPHILIDAE				
UNIDENTIFIED				
LARVAE	91	163	127	127.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE	18		36	18.00
DICRANOTA SP				
LARVAE	54		18	24.00

APPENDIX D-13-2 (Continued)

SITE = 02 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
PEDICIA SP				
LARVAE			18	6.00
HOLORUSIA SP				
LARVAE		18	18	12.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	36		18	18.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		18		6.00
TANYPODINAE				
UNIDENTIFIED				
LARVAE	18			6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	54	18	91	54.33
CORYNONEURA SP				
LARVAE		91	36	42.33
EUKIEFFERIELLA SP				
LARVAE	145	344	326	271.67
PARAPHAENOCLADIUS SP				
LARVAE	36		72	36.00

APPENDIX D-13-2 (Continued)

```
SITE = 02     SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                     REP A    REP B    REP C        MEAN

ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        PARAMETRIOCNEMUS SP
                        ---------------- --
                            LARVAE                                 181                           60.33

                        THIENEMANNIELLA SP
                        --------------- --
                            LARVAE                                  18       18                  12.00

                    CHIRONOMINAE
                        MICROPSECTRA SP
                        ------------ --
                            LARVAE                                1086      851     2027       1321.33

                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                  18      344       18        126.67

                        SIMULIUM SP
                        -------- --
                            LARVAE                                           72                  24.00

                        SIMULIUM SP
                        -------- --
                            PUPAE                                   54               163         72.33

                STRATIOMYIDAE
                        EUPARYPHUS SP
                        ---------- --
                            LARVAE                                  18                            6.00

                ANTHOMYIIDAE
                        LIMNOPHORA AEQUIFRONS
                        ---------- ----------
                            LARVAE                                  54       54      181         96.33

                MUSCIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                  36                           12.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 03      SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXA                                                    REP A    REP B    REP C        MEAN

NEMATODA                                                            18                18         12.00

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                NAIDIDAE
                        NAIS SP
                        ---- --                                     18       36      326        126.67

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                BAETIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                           72                  24.00

                        BAETIS SP
                        ------ --
                            LARVAE                                  18       54                  24.00

        COLEOPTERA
                        UNIDENTIFIED
                        ------------
                            LARVAE                                           18                   6.00

                DYTISCIDAE
                        DERONECTES SP
                        ---------- --
                            ADULTS                                                    18          6.00

                HYDROPHILIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                    18          6.00

        DIPTERA
                TIPULIDAE
                        ORMOSIA SP
                        ------- --
                            LARVAE                                  18                            6.00

                        HOLORUSIA SP
                        --------- --
                            LARVAE                                           18                   6.00
```

APPENDIX D-13-2 (Continued)

SITE = 03 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 16.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
THAUMALEIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	91	36	72	66.33
UNIDENTIFIED				
PUPAE			18	6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	36	109	54	66.33
TANYPODINAE				
UNIDENTIFIED				
LARVAE	18			6.00
DIAMESINAE				
DIAMESA SP				
LARVAE	109	217	272	199.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	54			18.00
EUKIEFFERIELLA SP				
LARVAE	18	253	127	132.67
ORTHOCLADIUS SP				
LARVAE	742	2009	2045	1598.67

APPENDIX D-13-2 (Continued)

SITE = 33 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	597	1213	742	850.67
PARAMETRIOCNEMUS SP				
LARVAE	18	36	36	30.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	18			6.00
MICROTENDIPES SP				
LARVAE			127	42.33
PARATENDIPES SP				
LARVAE	199	91	127	139.00
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	36	36	127	66.33
POLYPEDILUM FALLAX GROUP				
LARVAE	18	163	36	72.33
TANYTARSUS SP				
LARVAE	18			6.00
MICROPSECTRA SP				
LARVAE	36	36	36	36.00

APPENDIX D-13-2 (Continued)

```
SITE = 03       SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                  REP A    REP B    REP C        MEAN


ARTHROPODA
    INSECTA
        DIPTERA
                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                          54       18        24.00

                STRATIOMYIDAE
                        EUPARYPHUS SP
                        ---------- --
                            LARVAE                                                   18         6.00

                        STRATIOMYS SP
                        ---------- --
                            LARVAE                                 18                           6.00

                SYRPHIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                 18                           6.00

                EPHYDRIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                           18                  6.00

                ANTHOMYIIDAE
                        LIMNOPHORA AEQUIFRONS
                        ---------- ----------
                            LARVAE                                          54       36        30.00

                MUSCIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                 36                          12.00
```

APPENDIX D-13-2 (Continued)

[illegible] SITE CODE - HEADWATER STATION   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= [illegible]

TAXA	REP A	REP B	REP C	MEAN
[illegible]			54	18.00
[illegible]				
[illegible]				
[illegible]				
[illegible]				
[illegible] SP	18			6.00
[illegible]				
[illegible]				
[illegible]				
[illegible]				
UNIDENTIFIED				
LARVAE	750	145	227	374.00
[illegible] IS SP				
LARVAE	199	145	453	265.67
[illegible]				
UNIDENTIFIED				
LARVAE	18			6.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
DIPTERA				
[illegible]				
[illegible]				
LARVAE		18	54	24.00
[illegible]				
UNIDENTIFIED				
PUPAE			54	18.00
[illegible]CLADIINAE				
UNIDENTIFIED				
LARVAE		18		6.00

APPENDIX D-13-2 (Continued)

SITE = 04 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE	18		18	12.00
EUKIEFFERIELLA SP				
LARVAE	253	91	272	205.33
ORTHOCLADIUS SP				
LARVAE	36			12.00
PARAPHAENOCLADIUS SP				
LARVAE	199	36	742	325.67
PARAMETRIOCNEMUS SP				
LARVAE	72	54	525	217.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE			18	6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	959	235	471	555.00
SIMULIUM SP				
LARVAE	362			120.67
SIMULIUM SP				
PUPAE		18	72	30.00

APPENDIX D-13-2 (Continued)

SITE = 04 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	54	18	72	48.00
LIMNOPHORA DISCRETA				
LARVAE	18			6.00

APPENDIX D-13-2 (Continued)

SITE = 05 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	597	127	1412	712.00
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
PHYSIDAE				
UNIDENTIFIED			54	18.00
PLANORBIDAE				
UNIDENTIFIED			18	6.00
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS		18	18	12.00
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP	4923	127	5358	3469.33
IMMATURES W/O CAP. CHAETAE SP	1068	18	1665	917.00
NAIDIDAE				
NAIS BEHNINGI		18		6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	380	127	362	289.67
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	434	308	253	331.67

APPENDIX D-13-2 (Continued)

```
SITE = 05       SITE DESC = HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

            TAXA                                                          REP A     REP B     REP C          MEAN

ARTHROPODA
   INSECTA
      COLLEMBOLA                                                                              18             6.00

      EPHEMEROPTERA
            BAETIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                            72        72        36            60.00

                     BAETIS SP
                     ------ --
                         LARVAE                                            18        18        18            18.00

                     CALLIBAETIS SP
                     ----------- --
                         LARVAE                                                      18                       6.00

      ODONATA
          ZYGOPTERA
              COENAGRIONIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                           398       217       163           259.33

      COLEOPTERA
            DYTISCIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                            36                                12.00

                     DERONECTES SP
                     ---------- --
                         LARVAE                                            18                                 6.00

      TRICHOPTERA
            HYDROPTILIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                                                36            12.00

                     HYDROPTILA SP
                     ---------- --
                         LARVAE                                            36                                12.00
```

APPENDIX D-13-2 (Continued)

SITE = 05 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
DIXIDAE				
DIXA SP				
LARVAE		18	36	18.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	1593	253	2715	1520.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	72	18	54	48.00
TANYPODINAE				
ABLABESMYIA SP				
LARVAE		36	18	18.00
LABRUNDINIA SP				
LARVAE	18	18		12.00
PSECTROTANYPUS SP				
LARVAE		18		6.00
THIENEMANNIMYIA GROUP SP				
LARVAE	36			12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
CRICOTOPUS SP				
LARVAE	36			12.00

APPENDIX D-13-2 (Continued)

```
SITE # [illegible]      SITE DESC - HEADWATER STATION    COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                            REP A     REP B     REP C          MEAN

ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        CRICOTOPUS CRICOTOPUS BICINCTUS
                        ---------- ---------- ---------
                            LARVAE                                36                  127           54.33

                        EUKIEFFERIELLA SP
                        -------------- --
                            LARVAE                                          18                     6.00

                        METRIOCNEMUS SP
                        ------------ --
                            LARVAE                                18                               6.00

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                              1195       344       2045        1194.67

                        PARAPHAENOCLADIUS SP
                        ----------------- --
                            LARVAE                                18                   18          12.00

                        PARAMETRIOCNEMUS SP
                        ---------------- --
                            LARVAE                                54                              18.00

                        ORTHOCLADIINAE SP. 2
                        -------------- --  -
                            LARVAE                                36                              12.00

                    CHIRONOMINAE
                        CHIRONOMINI SP
                        ----------- --
                            LARVAE                                18                               6.00

                        PHAENOPSECTRA PHAENOPSECTRA
                        ------------- -------------
                            LARVAE                                          18                     6.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 05      SITE DESC = HEADWATER STATION    COLLECTION METHOD = ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                                 REP A     REP B     REP C        MEAN

  ARTHROPODA
     INSECTA
        DIPTERA
              CHIRONOMIDAE
                 CHIRONOMINAE
                    TANYTARSUS SP
                    ----------- --
                       LARVAE                                                    54                  18        24.00

                    CLADOTANYTARSUS SP
                    --------------- --
                       LARVAE                                                                        18         6.00

                    MICROPSECTRA SP
                    ------------ --
                       LARVAE                                                   344        54       253       217.00

              SIMULIIDAE
                    UNIDENTIFIED
                    ------------
                       LARVAE                                                  7819     16833     14951     13201.00

                    SIMULIUM SP
                    -------- --
                       LARVAE                                                              72                  24.00

                    SIMULIUM SP
                    -------- --
                       PUPAE                                                     54                  54        36.00
```

APPENDIX D-13-2 (Continued)

```
[illegible]      [illegible] - TRACT STATION        COLLECTION METHOD =  ELLIPSE SORBER        CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                         REP A     REP B     REP C          MEAN

[illegible]                                                                       18        54           24.00

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                ENCHYTRAEIDAE                                           54        36        36           42.00

                TUBIFICIDAE
                        IMMATURES W/O CAP. CHAETAE SP
                        --------- - - ---  ------- --                                       18            6.00

ARTHROPODA
    ARACHNOIDEA
        ACARI                                                           54                               18.00

    INSECTA
        EPHEMEROPTERA
                BAETIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                     471       344       253          356.00

                        BAETIS SP
                        ------ --
                            LARVAE                                      36       145       489          223.33

        ODONATA
            ZYGOPTERA
                COENAGRIONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                      72                               24.00

        COLEOPTERA
                ELMIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                      18                                6.00

        DIPTERA
                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                18                      6.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 07      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                             REP A    REP B    REP C         MEAN

 ARTHROPODA
     INSECTA
         DIPTERA
                 CHIRONOMIDAE
                         UNIDENTIFIED
                         ------------
                             PUPAE                                            36       36       91          54.33

                     TANYPODINAE
                         THIENEMANNIMYIA GROUP SP
                         --------------- ----- --
                             LARVAE                                           18                18          12.00

                     DIAMESINAE
                         DIAMESINAE SP. 1
                         ---------- --  -
                             LARVAE                                                             18           6.00

                         DIAMESA SP
                         ------- --
                             LARVAE                                           18                             6.00

                     ORTHOCLADIINAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                                    18       36          18.00

                         EUKIEFFERIELLA SP
                         -------------- --
                             LARVAE                                           36       72      145          84.33

                         ORTHOCLADIUS SP
                         ------------ --
                             LARVAE                                           36       18       72          42.00

                         PARAPHAENOCLADIUS SP
                         ----------------- --
                             LARVAE                                          145       54      199         132.67

                         PARAMETRIOCNEMUS SP
                         ---------------- --
                             LARVAE                                           72      127       18          72.33
```

APPENDIX D-13-2 (Continued)

```
SITE = [illegible]7      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

          TAXA.                                                              REP A     REP B     REP C          MEAN

  ARTHROPODA
     INSECTA
        DIPTERA
              CHIRONOMIDAE
                 ORTHOCLADIINAE
                    PSEUDOSMITTIA SP
                    ------------- --
                       LARVAE                                                          36                        12.00

                 CHIRONOMINAE
                    TANYTARSUS SP
                    ---------- --
                       LARVAE                                                36                                  12.00

              SIMULIIDAE
                    UNIDENTIFIED
                    ------------
                       LARVAE                                                36        217        18             90.33

                    UNIDENTIFIED
                    ------------
                       PUPAE                                                                      18              6.00

                    SIMULIUM SP
                    -------- --
                       LARVAE                                                72                                  24.00

              MUSCIDAE
                    UNIDENTIFIED
                    ------------
                       LARVAE                                                18                   18             12.00
```

APPENDIX D-13-2 (Continued)

SITE = 35 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18		18	12.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP	1665	163	72	633.33
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	199	326	398	307.67
BAETIS SP				
LARVAE	1792	670	1629	1363.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	6697	688	1628	3071.00
COLEOPTERA				
UNIDENTIFIED				
LARVAE	18			6.00
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	54	18	18	30.00
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE	18			6.00

APPENDIX D-13-2 (Continued)

```
SITE = U2        SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

        TAXON                                                              REP A     REP B     REP C          MEAN

  ARTHROPODA
      INSECTA
          DIPTERA
                TIPULIDAE
                      HOLORUSIA SP
                      --------- --
                          LARVAE                                            109        18        36           54.33

                CHIRONOMIDAE
                      UNIDENTIFIED
                      ------------
                          LARVAE                                            253                                 84.33

                      UNIDENTIFIED
                      ------------
                          PUPAE                                             235       163       163          187.00

                   DIAMESINAE
                      DIAMESA SP
                      ------- --
                          LARVAE                                            760        72       272          368.00

                   ORTHOCLADIINAE
                      UNIDENTIFIED
                      ------------
                          LARVAE                                            634       253       145          344.00

                      CORYNONEURA SP
                      ----------- --
                          LARVAE                                                       18                     6.00

                      CRICOTOPUS CRICOTOPUS TRIFASCIA
                      ---------- ---------- ---------
                          LARVAE                                                       18                     6.00

                      EUKIEFFERIELLA SP
                      -------------- --
                          LARVAE                                           2154       670       652         1158.67

                      ORTHOCLADIUS SP
                      ------------ --
                          LARVAE                                           5810       760      1231         2600.33
```

APPENDIX D-13-2 (Continued)

SITE - CS SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	2407	109	434	983.33
PARAMETRIOCNEMUS SP				
LARVAE	380	54	36	156.67
THIENEMANNIELLA SP				
LARVAE			36	12.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	127			42.33
SIMULIIDAE				
UNIDENT FIED				
LARVAE	362	145	416	307.67
SIMULIUM SP				
PUPAE			18	6.00
EMPIDIDAE				
HEMERODROMIA SP				
LARVAE			18	6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	72	36	72	60.00
LIMNOPHORA DISCRETA				
LARVAE	163	18	127	102.67

APPENDIX D-13-2 (Continued)

```
SITE = 09      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1

       TAXON                                                           REP A    REP B    REP C        MEAN

NEMATODA                                                                          18                   6.00

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                ENCHYTRAEIDAE                                                     36                  12.00

                TUBIFICIDAE
                        IMMATURES W/O CAP. CHAETAE SP
                        --------- - - ---  ------- --                                      18          6.00

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                BAETIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                     199       253      127        193.00

                        BAETIS SP
                        ------ --
                            LARVAE                                      54        36      109         66.33

        PLECOPTERA
                        UNIDENTIFIED
                        ------------
                            LARVAE                                      36                 18         18.00

        DIPTERA
                TIPULIDAE
                        ANTOCHA SP
                        ------- --
                            LARVAE                                      18                             6.00

                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                36                  12.00

                        UNIDENTIFIED
                        ------------
                            PUPAE                                                          18          6.00
```

APPENDIX D-13-2 (Continued)

SITE = 59 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	181	91	18	96.67
TANYPODINAE				
ABLABESMYIA SP				
LARVAE	18			6.00
THIENEMANNIMYIA GROUP SP				
LARVAE	18		18	12.00
DIAMESINAE				
DIAMESA SP				
LARVAE			18	6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18	18	36	24.00
EUKIEFFERIELLA SP				
LARVAE	54	54	72	60.00
ORTHOCLADIUS SP				
LARVAE	91		163	84.67
PARAPHAENOCLADIUS SP				
LARVAE	217	145	163	175.00
PARAMETRIOCNEMUS SP				
LARVAE	235	163	181	193.00

APPENDIX D-13-2 (Continued)

```
SITE = 09      SITE DESC - TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1

          TAXON                                          .                REP A     REP B     REP C          MEAN

ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        PSEUDOSMITTIA SP
                        ------------- --
                            LARVAE                                                             18            6.00

                    CHIRONOMINAE
                        MICROTENDIPES SP
                        ------------- --
                            LARVAE                                                             18            6.00

                        PHAENOPSECTRA PHAENOPSECTRA
                        ------------- -------------
                            LARVAE                                    18        54                          24.00

                        MICROPSECTRA SP
                        ------------ --
                            LARVAE                                    18        18                          12.00

                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                  3294       778       2516            2196.00

                        SIMULIUM SP
                        -------- --
                            PUPAE                                    109                   54             54.33

                STRATIOMYIDAE
                        EUPARYPHUS SP
                        ---------- --
                            LARVAE                                                         18              6.00

                ANTHOMYIIDAE
                        LIMNOPHORA AEQUIFRONS
                        ---------- ----------
                            LARVAE                                                         18              6.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 12      SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


       TAXON                                                        REP A     REP B     REP C           MEAN


ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                ENCHYTRAEIDAE                                         18        72        36            42.00

                TUBIFICIDAE
                        LIMNODRILUS HOFFMEISTERI
                        ----------- ------------
                            TYPICAL                                           18                       6.00

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                BAETIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                    18                                6.00

        DIPTERA
                CERATOPOGONIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                    18                                6.00

                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                      18              6.00

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                                    36        18        18            24.00

                    CHIRONOMINAE
                        MICROTENDIPES SP
                        ------------- --
                            LARVAE                                              18                      6.00

                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                    18                                6.00
```

APPENDIX D-13-2 (Continued)

SITE - [illegible] SITE DESC - TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18	109		42.33
ARTHROPODA				
INSECTA				
COLLEMBOLA		18		6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1195	796	181	724.00
BAETIS SP				
LARVAE	579	507	543	543.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	1032	1086	638	935.33
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	634	217	362	404.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	72	18	54	48.00

APPENDIX D-13-2 (Continued)

```
SITE = 13       SITE DESC = TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                         REP A     REP B     REP C          MEAN


ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                          54        18        72         48.00

                    TANYPODINAE
                        LABRUNDINIA SP
                        ----------- --
                            LARVAE                                                            18          6.00

                        LARSIA SP
                        ------ --
                            LARVAE                                         18                             6.00

                        THIENEMANNIMYIA GROUP SP
                        --------------- ----- --
                            LARVAE                                         54        72        54         60.00

                    DIAMESINAE
                        DIAMESA SP
                        ------- --
                            LARVAE                                                   18                   6.00

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                         18        54                   24.00

                        EUKIEFFERIELLA SP
                        -------------- --
                            LARVAE                                        253       163        54        156.67

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                                        344       199       163        235.33

                        PARAPHAENOCLADIUS SP
                        ----------------- --
                            LARVAE                                        597      1140       543        760.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 13      SITE DESC - TRACT STATION        COLLECTION METHOD = ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                        REP A    REP B    REP C        MEAN


ARTHROPODA
    INSECTA
        DIPTERA
            CHIRONOMIDAE
                ORTHOCLADIINAE
                    PARAMETRIOCNEMUS SP
                    ---------------- --
                        LARVAE                                         91      145       36        90.67

                    THIENEMANNIELLA SP
                    --------------- --
                        LARVAE                                                  54       18        24.00

                CHIRONOMINAE
                    CHIRONOMINI SP
                    ----------- --
                        LARVAE                                                           36        12.00

                    MICROTENDIPES SP
                    ------------- --
                        LARVAE                                         18       18                 12.00

                    PHAENOPSECTRA PHAENOPSECTRA
                    ------------- -------------
                        LARVAE                                         18       18       36        24.00

                    POLYPEDILUM FALLAX GROUP
                    ----------- ------ -----
                        LARVAE                                                           18         6.00

                    TANYTARSUS SP
                    ---------- --
                        LARVAE                                                  18                  6.00

                    MICROPSECTRA SP
                    ------------ --
                        LARVAE                                         18       54       18        30.00

            SIMULIIDAE
                    UNIDENTIFIED
                    ------------
                        LARVAE                                        344      597      615       518.67
```

APPENDIX D-13-2 (Continued)

```
SITE = 13      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 15.1


           TAXON                                                                REP A     REP B     REP C         MEAN

  ARTHROPODA
      INSECTA
          DIPTERA
                  STRATIOMYIIDAE
                          EUPARYPHUS SP
                          ---------- --
                              LARVAE                                                                   15            6.00

                  ANTHOMYIIDAE
                          LIMNOPHORA AEQUIFRONS
                          ---------- ----------
                              LARVAE                                             181       109       109          133.00

                          LIMNOPHORA DISCRETA
                          ---------- --------
                              LARVAE                                                       18                      6.00
```

APPENDIX D-13-2 (Continued)

SITE = 14 SITE CODE = TRACT STATION COLLECTION METHOD = EKMAN DREDGE CONVERSION FACTOR APPLIED= 44.4

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	44	44	133	73.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		89	44	44.33
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS		89		29.67
IMMATURES WITH CAP. CHAETAE SP		222	266	162.67
IMMATURES W/O CAP. CHAETAE SP		44	311	118.33
NAIDIDAE				
NAIS SP	266	133		133.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1376	844	1199	1139.67
CALLIBAETIS SP				
LARVAE	533	755	311	533.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
ARGIA SP				
LARVAE		44		14.67

APPENDIX D-13-2 (Continued)

SITE = 14 SITE DESC = TRACT STATION COLLECTION METHOD = EKMAN DREDGE CONVERSION FACTOR APPLIED= 44.4

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	488	311	311	370.00
AGABUS SP				
LARVAE		89		29.67
DIPTERA				
CULICIDAE				
UNIDENTIFIED				
PUPAE		44		14.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			355	118.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	622	222	266	370.00
TANYPODINAE				
PROCLADIUS PSILOTANYPUS				
LARVAE	311			103.67
PSECTROTANYPUS SP				
LARVAE	311	266	178	251.67
PSECTROTANYPUS SP. 2				
LARVAE			178	59.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	311			103.67

APPENDIX D-13-2 (Continued)

SITE = 14 SITE DESC = TRACT STATION COLLECTION METHOD = EKMAN DREDGE CONVERSION FACTOR APPLIED= 44.4

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	622	533	311	488.67
PSECTROCLADIUS SP				
LARVAE		266	178	148.00
CHIRONOMINAE				
CHIRONOMUS SP. GROUP 2				
LARVAE	622			207.33
MICROTENDIPES SP				
LARVAE			311	103.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	8747	2087	5239	5357.67
TANYTARSINI SP				
LARVAE	311	266		192.33
TANYTARSUS SP				
LARVAE	2797	6038	2042	3625.67
MICROPSECTRA SP				
LARVAE	24109	19625	10478	18070.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			44	14.67

APPENDIX D-13-2 (Continued)

```
SITE = 14      SITE DESC = TRACT STATION       COLLECTION METHOD =  EKMAN DREDGE         CONVERSION FACTOR APPLIED= 44.4


          TAXON                                                          REP A     REP B     REP C          MEAN


  ARTHROPODA
      INSECTA
          DIPTERA
                  SIMULIIDAE
                          SIMULIUM SP
                          -------- --                                                          44            14.67
                              PUPAE
```

APPENDIX D-13-2 (Continued)

```
SITE = 17      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                    REP A     REP B     REP C          MEAN


 ANNELIDA
     OLIGOCHAETA
         HAPLOTAXIDA
                 ENCHYTRAEIDAE                                       36                               12.00

                 TUBIFICIDAE
                         IMMATURES W/O CAP. CHAETAE SP
                         --------- - - ---  ------- --               18                                6.00

 ARTHROPODA
     INSECTA
         EPHEMEROPTERA
                 BAETIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                                      36           12.00

         COLEOPTERA
                         UNIDENTIFIED
                         ------------
                             LARVAE                                 434       670       597          567.00

                 HYDRAENIDAE
                         OCHTHEBIUS SP
                         ---------- --
                             LARVAE                                           109                     36.33

                 DYTISCIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                  36       199       127          120.67

                         DERONECTES SP
                         ---------- --
                             LARVAE                                                      18            6.00

                 HYDROPHILIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                           163                     54.33

                         HELOPHORUS SP
                         ---------- --
                             LARVAE                                            18                      6.00
```

APPENDIX D-13-2 (Continued)

SITE = 17 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
PSYCHODIDAE				
UNIDENTIFIED				
LARVAE	36		18	18.00
PERICOMA SP				
LARVAE		91		30.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	36	18	54	36.00
UNIDENTIFIED				
PUPAE		18		6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	1358	1122	996	1158.67
TANYPODINAE				
PSECTROTANYPUS SP				
LARVAE			145	48.33
DIAMESINAE				
DIAMESA SP				
LARVAE		145	145	96.67
ODONTOMESA SP				
LARVAE			145	48.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	253		290	181.00

APPENDIX D-13-2 (Continued)

```
SITE = 17      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                            REP A    REP B    REP C        MEAN


  ARTHROPODA
      INSECTA
          DIPTERA
              CHIRONOMIDAE
                  ORTHOCLADIINAE
                      CRICOTOPUS ISOCLADIUS
                      ---------- ----------
                          LARVAE                                             253                            84.33

                      CRICOTOPUS ISOCLADIUS C.F. TRICINCTUS
                      ---------- ---------- - -  ----------
                          LARVAE                                                      145                   48.33

                      EUKIEFFERIELLA SP
                      -------------- --
                          LARVAE                                                               145          48.33

                      ORTHOCLADIUS SP
                      ------------ --
                          LARVAE                                           10697     5810     7294        7933.67

                      PARACLADIUS SP
                      ----------- --
                          LARVAE                                                      145                   48.33

                      PARAPHAENOCLADIUS SP
                      ----------------- --
                          LARVAE                                            2878     7693     6118        5563.00

                      THIENEMANNIELLA SP
                      --------------- --
                          LARVAE                                                               290          96.67

                  CHIRONOMINAE
                      CHIRONOMINI SP
                      ----------- --
                          LARVAE                                                      145                   48.33

                      MICROTENDIPES SP
                      ------------- --
                          LARVAE                                            1050      145     1466         887.00
```

APPENDIX D-13-2 . (Continued)

```
SITE = 17      SITE DESC = TRACT STATION       COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                      REP A    REP B    REP C        MEAN


ARTHROPODA
    INSECTA
        DIPTERA
            CHIRONOMIDAE
                CHIRONOMINAE
                    PHAENOPSECTRA PHAENOPSECTRA
                    ------------- -------------
                        LARVAE                                       253               579        277.33

                    MICROPSECTRA SP
                    ------------ --
                        LARVAE                                     13575     2606     2190       6123.67

            SIMULIIDAE
                    UNIDENTIFIED
                    ------------
                        LARVAE                                       127      290      272        229.67

            TABANIDAE
                    TABANUS SP
                    ------- --
                        LARVAE                                                 36       18         18.00

            EMPIDIDAE
                    HEMERODROMIA SP
                    ------------ --
                        LARVAE                                                          54         18.00

            DOLICHOPODIDAE
                    HYDROPHORUS SP
                    ----------- --
                        LARVAE                                       127       91                  72.67

            EPHYDRIDAE
                    UNIDENTIFIED
                    ------------
                        LARVAE                                       670      163                 277.67

                    EPHYDRA SP
                    ------- --
                        LARVAE                                                         127         42.33

            ANTHOMYIIDAE
                    LIMNOPHORA AEQUIFRONS
                    ---------- ----------
                        LARVAE                                        54      398      181        211.00
```

APPENDIX D-13-2 (Continued)

SITE = [illegible]   SITE DESC = YELLOW CREEK   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	72		36	36.00
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
LYMNAEIDAE				
LYMNAEA SP	2842	1068	308	1406.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS	36			12.00
IMMATURES WITH CAP. CHAETAE SP	2335	469	1665	1496.33
IMMATURES W/O CAP. CHAETAE SP	145			48.33
ARTHROPODA				
ARACHNIDA				
ACARI	778	688	959	808.33
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	1104	634	1593	1110.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	54			18.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	18			6.00

APPENDIX D-13-2 (Continued)

```
SITE = 17       SITE DESC - TRACT STATION        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                        REP A    REP B    REP C          MEAN


  ARTHROPODA
      INSECTA
          DIPTERA
                 ANTHOMYIIDAE
                         LIMNOPHORA DISCHETA
                         ----------- - -------
                             LARVAE                                     36       72       54            54.00

                 MUSCIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                     72                              24.00
```

APPENDIX D-13-2 (Continued)

SITE = 19 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
CAENIDAE				
CAENIS SP				
LARVAE	72	72	54	66.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE	181	145	235	187.00
ARGIA SP				
LARVAE		109	235	114.67
HEMIPTERA				
GERRIDAE				
GERRIS SP				
LARVAE		18		6.00
COLEOPTERA				
DRYOPIDAE				
HELICHUS SP				
LARVAE			18	6.00
TRICHOPTERA				
HYDROPTILIDAE				
HYDROPTILA SP				
LARVAE	18			6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	1792	652	1032	1158.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	127	91	78.67
TANYPODINAE				
PENTANEURINI SP				
LARVAE	18			6.00

APPENDIX D-13-2 (Continued)

SITE = 19   SITE DESC = YELLOW CREEK   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 13.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
ABLABESMYIA SP				
LARVAE	308	181		163.00
THIENEMANNIMYIA GROUP SP				
LARVAE		36	235	90.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36		18	18.00
CRICOTOPUS CRICOTOPUS				
LARVAE		18		6.00
ORTHOCLADIUS SP				
LARVAE	543	326	706	525.00
PARAMETRIOCNEMUS SP				
LARVAE			72	24.00
THIENEMANNIELLA SP				
LARVAE			18	6.00
ORTHOCLADIINAE SP. 2				
LARVAE	54	36		30.00
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE	18			6.00

APPENDIX D-13-2 (Continued)

```
SITE = 19      SITE DESC = YELLOW CREEK         COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


        TAXON                                                    REP A     REP B     REP C          MEAN

ARTHROPODA
   INSECTA
      DIPTERA
            CHIRONOMIDAE
               CHIRONOMINAE
                  PARATENDIPES SP
                  ------------ --
                     LARVAE                                        36                  18          18.00

                  TANYTARSUS SP
                  ---------- --
                     LARVAE                                                            18           6.00

                  MICROPSECTRA SP
                  ------------ --
                     LARVAE                                       615        91       688         464.67

            SIMULIIDAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                      1810      1665      2371        1948.67

                  SIMULIUM SP
                  -------- --
                     PUPAE                                         36        36                    24.00
```

APPENDIX D-13-2 (Continued)

SITE = 20 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	181	91	109	127.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	72	72	109	84.33
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	54	18	36	36.00
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
HEMIPTERA				
CORIXIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
DERONECTES SP				
LARVAE	109	18	145	90.67
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	235	145	163	181.00
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE			18	6.00

APPENDIX D-13-2 (Continued)

```
SITE = 20      SITE DESC = YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER       CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                              REP A     REP B     REP C            MEAN


 ARTHROPODA
     INSECTA
         DIPTERA
                 CHIRONOMIDAE
                     ORTHOCLADIINAE
                         CRICOTOPUS ISOCLADIUS C.F. TRICINCTUS
                         ---------- ---------- - -  ----------
                             LARVAE                                                     18                         6.00

                         ORTHOCLADIUS SP
                         ------------ --
                             LARVAE                                           18                                   6.00

                         PARAPHAENOCLADIUS SP
                         ----------------- --
                             LARVAE                                           18                                   6.00

                     CHIRONOMINAE
                         TANYTARSUS SP
                         ---------- --
                             LARVAE                                           18                                   6.00

                         MICROPSECTRA SP
                         ------------ --
                             LARVAE                                           36                                  12.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 21      SITE DESC = YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED= 18.1


          TAXON                                                     REP A    REP B    REP C        MEAN

  NEMATODA                                                                             18           6.00

  ARTHROPODA
      ARACHNOIDEA
          ACARI                                                       18                18          12.00

      INSECTA
          COLLEMBOLA                                                           54                   18.00

          EPHEMEROPTERA
                    BAETIDAE
                              UNIDENTIFIED
                              ------------
                                   LARVAE                             36                36          24.00

          ODONATA
               ZYGOPTERA
                    COENAGRIONIDAE
                              UNIDENTIFIED
                              ------------
                                   LARVAE                             54       18       18          30.00

          COLEOPTERA
                    DYTISCIDAE
                              DERONECTES SP
                              ---------- --
                                   LARVAE                             91      181      109         127.00

          DIPTERA
                    CERATOPOGONIDAE
                              UNIDENTIFIED
                              ------------
                                   LARVAE                             18       36       91          48.33

                    CHIRONOMIDAE
                              UNIDENTIFIED
                              ------------
                                   PUPAE                                       36       18          18.00

                         TANYPODINAE
                              ABLABESMYIA SP
                              ----------- --
                                   LARVAE                             18                             6.00
```

APPENDIX D-13-2 (Continued)

SITE = 21   SITE DESC = YELLOW CREEK   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36			12.00
CRICOTOPUS CRICOTOPUS				
LARVAE	54			18.00
ORTHOCLADIUS SP				
LARVAE	181	145	36	120.67
PARAPHAENOCLADIUS SP				
LARVAE	36		36	24.00
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE		36	18	18.00
MICROPSECTRA SP				
LARVAE	36	18		18.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	72	18	36	42.00
SIMULIUM SP				
PUPAE	36			12.00

APPENDIX D-13-2 (Continued)

```
SITE = 22      SITE DESC = YELLOW CREEK        COLLECTION METHOD =  ELLIPSE SURBER        CONVERSION FACTOR APPLIED: 18.1

          TAXON                                                        REP A    REP B    REP C         MEAN

NEMATODA                                                                          18                    6.00

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
            TUBIFICIDAE
                IMMATURES W/O CAP. CHAETAE SP
                ---------- - - - -  ------- --                                    18                    6.00

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
            BAETIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                                                 18           6.00

        ODONATA
            ANISOPTERA
                GOMPHIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                              18                 18          12.00

        DIPTERA
            CERATOPOGONIDAE
                UNIDENTIFIED
                ------------
                    LARVAE                                              91        18       54          54.33

            CHIRONOMIDAE
                UNIDENTIFIED
                ------------
                    PUPAE                                              145        91      127         121.00

                TANYPODINAE
                PENTANEURINI SP
                ------------- --
                    LARVAE                                              18                              6.00

                ORTHOCLADIINAE
                UNIDENTIFIED
                ------------
                    LARVAE                                              18                              6.00

                CRICOTOPUS SP
                ---------- --
                    LARVAE                                             109                             36.33
```

APPENDIX D-13-2 (Continued)

SITE = 2   SITE DESC = YELLOW CREEK   COLLECTION METHOD = ELLIPSE SURBER   CONVERSION FACTOR APPLIED= 10.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE	91	217	91	133.00
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE	36			12.00
EUKIEFFERIELLA SP				
LARVAE			18	6.00
ORTHOCLADIUS SP				
LARVAE	272	109	344	241.67
PARAPHAENOCLADIUS SP				
LARVAE	36	54	217	102.33
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE	54		36	30.00
MICROPSECTRA SP				
LARVAE	91	18		36.33
RHEOTANYTARSUS SP				
LARVAE			18	6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	36	36	36	36.00

APPENDIX D-13-2 (Continued)

```
SITE = 23      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD = TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

        TAXON                                                      REP A     REP B     REP C          MEAN

NEMATODA                                                             20                                 6.67

ANNELIDA
    OLIGOCHAETA
        HAPLOTAXIDA
                NAIDIDAE
                        NAIS SP
                        ---- --                                                         59             19.67

                        NAIS BEHNINGI
                        ---- --------                                20        254      800            358.00

                        NAIS ELINGUIS
                        ---- --------                                                   20              6.67

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                BAETIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                  273         39      351            221.00

                        BAETIS SP
                        ------ --
                            LARVAE                                   20                  20             13.33

                        DACTYLOBAETIS SP
                        ------------- --
                            LARVAE                                              39       20             19.67

                HEPTAGENIIDAE
                        HEPTAGENIA SP
                        ---------- --
                            LARVAE                                  195         39       20             84.67

                        RHITHROGENA SP
                        ----------- --
                            LARVAE                                  215         39      273            175.67
```

APPENDIX D-13-2 (Continued)

SITE = 23 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	98	20	39	52.33
CHOROTERPES SP				
LARVAE	195	20	156	123.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	332	117	488	312.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	137	78	98	104.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39	20	59	39.33
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE	39			13.00
TRICHOPTERA				
RHYACOPHILIDAE				
GLOSSOSOMATINAE				
UNIDENTIFIED				
LARVAE	98			32.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	1092	332	1092	838.67
HYDROPSYCHE SP				
LARVAE	644	449	1287	793.33

APPENDIX D-13-2 (Continued)

```
SITE = 23      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


         TAXON                                                          REP A     REP B     REP C           MEAN

ARTHROPODA
    INSECTA
        TRICHOPTERA
                HYDROPTILIDAE
                        AGRAYLEA SP
                        -------- --
                            LARVAE                                                 20                        6.67

                LEPTOCERIDAE
                        OECETIS SP
                        ------- --
                            LARVAE                                                            59            19.67

        DIPTERA
                TIPULIDAE
                        LIMNOPHILA SP
                        ---------- --
                            LARVAE                                        39       98        137            91.33

                CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                         20       39        273           110.67

                    DIAMESINAE
                        ODONTOMESA SP
                        ---------- --
                            LARVAE                                                 20                        6.67

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                 20         59            26.33

                        CRICOTOPUS SP
                        ---------- --
                            LARVAE                                        20                                 6.67

                        CRICOTOPUS CRICOTOPUS
                        ---------- ----------
                            LARVAE                                        59                 117            58.67

                        CRICOTOPUS CRICOTOPUS BICINCTUS
                        ---------- ---------- ---------
                            LARVAE                                        20                  20            13.33
```

APPENDIX D-13-2 (Continued)

SITE = 23   SITE DESC = UPPER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE	39	39	20	32.67
EUKIEFFERIELLA SP				
LARVAE	20			6.67
MICROCRICOTOPUS SP				
LARVAE	20		20	13.33
ORTHOCLADIUS SP				
LARVAE	254	410	566	410.00
PARAKIEFFERIELLA SP				
LARVAE	39		78	39.00
SMITTIA SP				
LARVAE		20	20	13.33
CHIRONOMINAE				
CHIRONOMUS SP. GROUP 2				
LARVAE			20	6.67
MICROTENDIPES SP				
LARVAE	39	20		19.67
PARACLADOPELMA SP				
LARVAE	117		39	52.00

APPENDIX D-13-2 (Continued)

```
SITE = 23      SITE DESC = UPPER WHITE RIVER     COLLECTION METHOD = TALL CIRCLE SURBER     CONVERSION FACTOR APPLIED= 39.5

         TAXON                                                            REP A     REP B     REP C          MEAN

  ARTHROPODA
      INSECTA
          DIPTERA
                  CHIRONOMIDAE
                      CHIRONOMINAE
                          PHAENOPSECTRA PHAENOPSECTRA
                          ------------- -------------
                              LARVAE                                                20        20            13.33

                          POLYPEDILUM TRIPCDURA GRP.
                          ----------- --------- ---
                              LARVAE                                                20        20            13.33

                          CLADOTANYTARSUS SP
                          --------------- --
                              LARVAE                                                          20             6.67

                          RHEOTANYTARSUS SP
                          -------------- --
                              LARVAE                                      78        20       156            84.67

                  SIMULIIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      20        20        59            33.00

                  EMPIDIDAE
                          CLINOCERA SP
                          --------- --
                              LARVAE                                                          59            19.67
```

APPENDIX D-13-2 (Continued)

SITE = 24   SITE DESC = UPPER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	39	20	26.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	39			13.00
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		39	78	39.00
IMMATURES WITH CAP. CHAETAE SP			78	26.00
IMMATURES W/O CAP. CHAETAE SP	20	117	176	104.33
NAIDIDAE				
NAIS SP	59	39	78	58.67
NAIS BEHNINGI	2165	2574	5928	3555.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	59	20	20	33.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		117	39	52.00

APPENDIX D-13-2 (Continued)

SITE = 24 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
BAETIS SP				
LARVAE	117	59	39	71.67
DACTYLOBAETIS SP				
LARVAE			39	13.00
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE			20	6.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		20		6.67
CHOROTERPES SP				
LARVAE	98	98		65.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	176	98	293	189.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	59	156	98	104.33
POLYMITARCIDAE				
EPHORON SP				
LARVAE		20		6.67
COLEOPTERA				
ELMIDAE				
MICROCYLLOEPUS SP				
LARVAE	20		39	19.67

APPENDIX D-13-2 (Continued)

SITE = 24 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE			20	6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	254	975	371	533.33
HYDROPSYCHE SP				
LARVAE	273	371	410	351.33
HYDROPTILIDAE				
HYDROPTILA SP				
LARVAE	20	39	20	26.33
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE		39	20	19.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	98		39	45.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			117	39.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	117	39	156	104.00

APPENDIX D-13-2 (Continued)

```
SITE = 24      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


        TAXON                                                        REP A     REP B     REP C          MEAN


ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    TANYPODINAE
                        THIENEMANNIMYIA GROUP SP
                        -------------- ----- --
                            LARVAE                                                59        20          26.33

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                20       117          45.67

                        CRICOTOPUS CRICOTOPUS
                        ---------- ----------
                            LARVAE                                      78                  39          39.00

                        CRICOTOPUS CRICOTOPUS BICINCTUS
                        ---------- ---------- ---------
                            LARVAE                                                20                    6.67

                        CRICOTOPUS CRICOTOPUS TRIFASCIA
                        ---------- ---------- ---------
                            LARVAE                                                59                   19.67

                        EUKIEFFERIELLA SP
                        -------------- --
                            LARVAE                                                          20           6.67

                        ORTHOCLADIUS SP
                        ------------ --
                            LARVAE                                      39        39                   26.00

                        PARAKIEFFERIELLA SP
                        ---------------- --
                            LARVAE                                                          59          19.67

                        PARAPHAENOCLADIUS SP
                        ----------------- --
                            LARVAE                                      20                              6.67
```

APPENDIX D-13-2 (Continued)

SITE = 24 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		39		13.00
MICROTENDIPES SP				
LARVAE	78	312	137	175.67
PARACLADOPELMA SP				
LARVAE			20	6.67
POLYPEDILUM SP				
LARVAE	39	78	39	52.00
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20			6.67
CLADOTANYTARSUS SP				
LARVAE	20			6.67
MICROPSECTRA SP				
LARVAE			20	6.67
RHEOTANYTARSUS SP				
LARVAE	59	39	176	91.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	59	20	20	33.00

APPENDIX D-13-2 (Continued)

SITE = 24 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE		20		6.67

APPENDIX D-13-2 (Continued)

SITE = 26   SITE DESC = UPPER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20		117	45.67
IMMATURES W/O CAP. CHAETAE SP	39		59	32.67
NAIDIDAE				
CHAETOGASTER DIAPHANUS			20	6.67
NAIS SP	59	20	98	59.00
NAIS BEHNINGI	1170	1794	1560	1508.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	78		32.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20	137	78	78.33
BAETIS SP				
LARVAE	254	78	39	123.67

APPENDIX D-13-2 (Continued)

SITE = 26 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	137	39	59	78.33
RHITHROGENA SP				
LARVAE	78	98	39	71.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	39			13.00
CHOROTERPES SP				
LARVAE	254	195	156	201.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	156	98	59	104.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	195	137	176	169.33
POLYMITARCIDAE				
EPHORON SP				
LARVAE		20		6.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	59			19.67

APPENDIX D-13-2 (Continued)

```
SITE = 26      SITE CODE - UPPER WHITE RIVER     COLLECTION METHOD = TALL CIRCLE SURBER     CONVERSION FACTOR APPLIED= 19.5

         TAXON                                                         REP A     REP B     REP C          MEAN

   ARTHROPODA
      INSECTA
         COLEOPTERA
               ELMIDAE
                     MICROCYLLOEPUS
                     -------------- --
                        LARVAE                                           39                  20           19.67

                     MICROCYLLOEPUS PUSILLUS
                     -------------- --------
                        LARVAE                                           20                               6.67

         TRICHOPTERA
               HYDROPSYCHIDAE
                     UNIDENTIFIED
                     ------------
                        LARVAE                                         2516       351       273         1046.67

                     HYDROPSYCHE SP
                     ----------- --
                        LARVAE                                         1404       449       137          663.33

               HYDROPTILIDAE
                     UNIDENTIFIED
                     ------------
                        PUPAE                                            20        59                    26.33

                     [illegible]
                     ----- ---- --
                        LARVAE                                           20        59        39           39.33

         LEPIDOPTERA
               PYRALIDAE
                     UNIDENTIFIED
                     ------------
                        LARVAE                                                     20                     6.67

         DIPTERA
               TIPULIDAE
                     LIMNOPHILA SP
                     ---------- --
                        LARVAE                                           20                               6.67

               CHIRONOMIDAE
                     UNIDENTIFIED
                     ------------
                        PUPAE                                            78        20       176           91.33
```

APPENDIX D-13-2 (Continued)

SITE = 26 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
ABLABESMYIA SP				
LARVAE	20			6.67
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE		98		32.67
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE			20	6.67
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE		39		13.00
EUKIEFFERIELLA SP				
LARVAE	20	20	20	20.00
MICROCRICOTOPUS SP				
LARVAE		20	20	13.33
ORTHOCLADIUS SP				
LARVAE		20	20	13.33
PARAKIEFFERIELLA SP				
LARVAE		20		6.67

APPENDIX D-13-2 (Continued)

```
SITE = 26      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


         TAXON                                                        REP A     REP B     REP C          MEAN

ARTHROPODA
    INSECTA
        DIPTERA
                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        PARAPHAENOCLADIUS SP
                        ----------------- --
                            LARVAE                                      39                  39          26.00

                    CHIRONOMINAE
                        MICROTENDIPES SP
                        ------------- --
                            LARVAE                                      20                  98          39.33

                        POLYPEDILUM TRIPODURA GRP.
                        ----------- --------- ---
                            LARVAE                                                          20           6.67

                        CLADOTANYTARSUS SP
                        --------------- --
                            LARVAE                                                39                    13.00

                        MICROPSECTRA SP
                        ------------ --
                            LARVAE                                                20        20          13.33

                        RHEOTANYTARSUS SP
                        -------------- --
                            LARVAE                                     195       156        59         136.67

                SIMULIIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                59        39          32.67
```

APPENDIX D-13-2 (Continued)

SITE = 27 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		78		26.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	39	117	78	78.00
NAIDIDAE				
NAIS SP	20	39	20	26.33
NAIS BEHNINGI	468	663	234	455.00
NAIS ELINGUIS		39		13.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20			6.67
LEPTOPHLEBIIDAE				
CHOROTERPES SP				
LARVAE	59	59	20	46.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	39	59		32.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	78	98	20	65.33

APPENDIX D-13-2 (Continued)

```
SITE = 27      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

          TAXON                                                        REP A    REP B    REP C         MEAN

 ARTHROPODA
     INSECTA
         HEMIPTERA
                 CORIXIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                                        20          6.67

         COLEOPTERA
                 DRYOPIDAE
                         HELICHUS SP
                         -------- --
                             LARVAE                                                        20          6.67

         TRICHOPTERA
                 HYDROPSYCHIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                     20       39                   19.67

                         HYDROPSYCHE SP
                         ----------- --
                             LARVAE                                              20                    6.67

                 HYDROPTILIDAE
                         HYDROPTILA SP
                         ---------- --
                             LARVAE                                              20                    6.67

         DIPTERA
                 TIPULIDAE
                         LIMNOPHILA SP
                         ---------- --
                             LARVAE                                              39                   13.00

                 CHIRONOMIDAE
                         UNIDENTIFIED
                         ------------
                             PUPAE                                      78       98        20         65.33

                     TANYPODINAE
                         THIENEMANNIMYIA GROUP SP
                         --------------- ----- --
                             LARVAE                                              20                    6.67

                     ORTHOCLADIINAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                     20       20                   13.33
```

APPENDIX D-13-2 (Continued)

SITE = 27   SITE DESC = UPPER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS RICOTOPUS				
LARVAE	39		20	19.67
[illegible] SP				
LARVAE			20	6.67
ORTHOCLADIUS SP				
LARVAE		20		6.67
PARAKIEFFERIELLA SP				
LARVAE		39	20	19.67
PARAPHAENOCLADIUS SP				
LARVAE	39			13.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	20			6.67
CHIRONOMUS SP. GROUP 2				
LARVAE	20		20	13.33
MICROTENDIPES SP				
LARVAE		59		19.67
PARACLADOPELMA SP				
LARVAE	39			13.00

APPENDIX D-13-2 (Continued)

```
SITE = 27     SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD = TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.6


       TAXON                                                         REP A    REP B    REP C         MEAN

ARTHROPODA
     INSECTA
          DIPTERA
                 CHIRONOMIDAE
                      CHIRONOMINAE
                           PHAENOPSECTRA PHAENOPSECTRA
                           ------------- -------------
                                LARVAE                                 39       39                   26.00

                           PHAENOPSECTRA TRIBELOS
                           ------------- --------
                                LARVAE                                                   20           6.67

                           POLYPEDILUM SP
                           ----------- --
                                LARVAE                                 20       59                   26.33

                           STICTOCHIRONOMUS SP
                           ---------------- --
                                LARVAE                                                   39          13.00

                           TANYTARSINI SP
                           ----------- --
                                LARVAE                                 20                             6.67

                           CLADOTANYTARSUS SP
                           --------------- --
                                LARVAE                                                   39          13.00

                           RHEOTANYTARSUS SP
                           -------------- --
                                LARVAE                                          98                   32.67
```

APPENDIX D-13-2 (Continued)

SITE = 28 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			20	6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			39	13.00
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20	20	39	26.33
IMMATURES W/O CAP. CHAETAE SP	215	39	117	123.67
NAIDIDAE				
CHAETOGASTER DIAPHANUS			20	6.67
NAIS SP	176	254	195	208.33
NAIS BEHNINGI	1619	2048	2204	1957.00
NAIS ELINGUIS	39	39	59	45.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39	20	26.33

APPENDIX D-13-2 (Continued)

```
SITE # 28      SITE DESC = CONFLUENCE          COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


          TAXON                                                        REP A     REP B     REP C          MEAN


  ARTHROPODA
      INSECTA
        EPHEMEROPTERA
              BAETIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                                  20        20            13.33

                     BAETIS SP
                     ------ --
                         LARVAE                                         20       20                      13.33

              HEPTAGENIIDAE
                     HEPTAGENIA SP
                     ---------- --
                         LARVAE                                                  20                       6.67

              LEPTOPHLEBIIDAE
                     CHOROTERPES SP
                     ----------- --
                         LARVAE                                                  78        78            52.00

              EPHEMERELLIDAE
                     EPHEMERELLA SP
                     ----------- --
                         ADULTS                                                  20        39            19.67

              TRICORYTHIDAE
                     TRICORYTHODES SP
                     ------------- --
                         LARVAE                                                  20        78            32.67

        TRICHOPTERA
              HYDROPSYCHIDAE
                     UNIDENTIFIED
                     ------------
                         LARVAE                                         59      117       137           104.33

                     HYDROPSYCHE SP
                     ----------- --
                         LARVAE                                         98      117        20            78.33

              HYDROPTILIDAE
                     HYDROPTILA SP
                     ---------- --
                         LARVAE                                                  20                       6.67
```

APPENDIX D-23-2 (Continued)

```
SITE = 23      SITE DESC = CONFLUENCE         COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

        TAXON                                                    REP A    REP B    REP C        MEAN

   ARTHROPODA
       INSECTA
           DIPTERA
                   TIPULIDAE
                           LIMNOPHILA SP
                           ---------- --
                               LARVAE                                       20       39         19.67

                   CERATOPOGONIDAE
                           UNIDENTIFIED
                           ------------
                               LARVAE                             20       20                  13.33

                   CHIRONOMIDAE
                           UNIDENTIFIED
                           ------------
                               PUPAE                              78      215       39        110.67

                       TANYPODINAE
                           THIENEMANNIMYIA GROUP SP
                           --------------- ----- --
                               LARVAE                                      20                   6.67

                       DIAMESINAE
                           ODONTOMESA SP
                           ---------- --
                               LARVAE                             20                            6.67

                       ORTHOCLADIINAE
                           UNIDENTIFIED
                           ------------
                               LARVAE                                      20                   6.67

                           EUKIEFFERIELLA SP
                           -------------- --
                               LARVAE                             20                            6.67

                           MICROCRICOTOPUS SP
                           --------------- --
                               LARVAE                             20       98                  39.33

                           ORTHOCLADIUS SP
                           ------------ --
                               LARVAE                                      98       20         39.33
```

APPENDIX D-13-2 (Continued)

SITE = 23 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAKIEFFERIELLA SP				
LARVAE	20	20	39	26.33
PARAPHAENOCLADIUS SP				
LARVAE		20	20	13.33
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20	59	39	39.33
PARACLADOPELMA SP				
LARVAE	20			6.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE		20	39	19.67
POLYPEDILUM SP				
LARVAE	20	20	20	20.00
TANYTARSUS SP				
LARVAE			20	6.67
MICROPSECTRA SP				
LARVAE	20	20		13.33
PARATANYTARSUS SP				
LARVAE	20			6.67

APPENDIX D-13-2 (Continued)

```
SITE = 28      SITE DESC = CONFLUENCE          COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


         TAXON                                                            REP A    REP B    REP C         MEAN

  ARTHROPODA
     INSECTA
        DIPTERA
              CHIRONOMIDAE
                 CHIRONOMINAE
                    RHEOTANYTARSUS SP
                    --------------- -
                       LARVAE                                                       59       39          32.67

              SIMULIIDAE
                    UNIDENTIFIED
                    ------------
                       LARVAE                                               20                20          13.33
```

APPENDIX D-13-2 (Continued)

SITE = 29 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	78		39	39.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL			20	6.67
LIMNODRILUS SPIRALIS			20	6.67
IMMATURES WITH CAP. CHAETAE SP	98	20	137	85.00
IMMATURES W/O CAP. CHAETAE SP	117	20	234	123.67
NAIDIDAE				
NAIS SP	176	59	98	111.00
NAIS BEHNINGI	585	78	234	299.00
NAIS ELINGUIS	20	20	39	26.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39		19.67

APPENDIX D-13-2 (Continued)

```
SITE = 29      SITE DESC = CONFLUENCE          COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


        TAXON                                                          REP A     REP B     REP C          MEAN

  ARTHROPODA
     INSECTA
        EPHEMEROPTERA
              BAETIDAE
                    UNIDENTIFIED
                    ------------
                       LARVAE                                            39       137       117           97.67

                    BAETIS SP
                    ------ --
                       LARVAE                                                     351                    117.00

              HEPTAGENIIDAE
                    HEPTAGENIA SP
                    ---------- --
                       LARVAE                                            59        78        39           58.67

                    RHITHROGENA SP
                    ----------- --
                       LARVAE                                            39       312        59          136.67

              LEPTOPHLEBIIDAE
                    TRAVERELLA ALBERTANA
                    ---------- ---------
                       LARVAE                                                      20                     6.67

                    CHOROTERPES SP
                    ----------- --
                       LARVAE                                            78        59        59           65.33

              EPHEMERELLIDAE
                    EPHEMERELLA SP
                    ----------- --
                       ADULTS                                            20                  78           32.67

              TRICORYTHIDAE
                    TRICORYTHODES SP
                    ------------- --
                       LARVAE                                            59        39        59           52.33

        PLECOPTERA
                    UNIDENTIFIED
                    ------------
                       LARVAE                                                      20                     6.67
```

APPENDIX D-13-2 (Continued)

```
SITE = 29      SITE DESC = CONFLUENCE         COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


         TAXON                                                          REP A     REP B     REP C          MEAN

  ARTHROPODA
      INSECTA
          TRICHOPTERA
                  RHYACOPHILIDAE
                      GLOSSOSOMATINAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      20        20                    13.33

                  HYDROPSYCHIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      59      1424       527         670.00

                          HYDROPSYCHE SP
                          ----------- --
                              LARVAE                                     117      1151       410         559.33

                  HYDROPTILIDAE
                          HYDROPTILA SP
                          ---------- --
                              LARVAE                                      39        20        39          32.67

                  LEPTOCERIDAE
                          OECETIS SP
                          ------- --
                              LARVAE                                                          20           6.67

          DIPTERA
                  TIPULIDAE
                          LIMNOPHILA SP
                          ---------- --
                              LARVAE                                      20                  59          26.33

                  CERATOPOGONIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      20                  20          13.33

                  CHIRONOMIDAE
                          UNIDENTIFIED
                          ------------
                              PUPAE                                       39        78       254         123.67

                      ORTHOCLADIINAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      59        59        20          46.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 29      SITE DESC = CONFLUENCE          COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


        TAXON                                                            REP A    REP B    REP C        MEAN

 ARTHROPODA
     INSECTA
         DIPTERA
                 CHIRONOMIDAE
                     ORTHOCLADIINAE
                         CRICOTOPUS CRICOTOPUS
                         ---------- ----------
                             LARVAE                                                         78         26.00

                         CRICOTOPUS CRICOTOPUS BICINCTUS
                         ---------- ---------- ---------
                             LARVAE                                        59                          19.67

                         CRICOTOPUS CRICOTOPUS TRIFASCIA
                         ---------- ---------- ---------
                             LARVAE                                                20       20         13.33

                         EUKIEFFERIELLA SP
                         -------------- --
                             LARVAE                                               117       20         45.67

                         ORTHOCLADIUS SP
                         ------------ --
                             LARVAE                                        78     176      156        136.67

                     CHIRONOMINAE
                         MICROTENDIPES SP
                         ------------- --
                             LARVAE                                        20               59         26.33

                         CLADOTANYTARSUS SP
                         --------------- --
                             LARVAE                                                         20          6.67

                         RHEOTANYTARSUS SP
                         -------------- --
                             LARVAE                                        20      39                  19.67

                 SIMULIIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                               780       20        266.67
```

APPENDIX D-13-2 (Continued)

SITE = 30 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		20		6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20		20	13.33
NAIDIDAE				
NAIS BEHNINGI	117	215	566	299.33
NAIS ELINGUIS			20	6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	39	20	20	26.33
INSECTA				
COLLEMBOLA		78	39	39.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
BAETIS SP				
LARVAE		20		6.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20	39	19.67

APPENDIX D-13-2 (Continued)

SITE = 30 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		20		6.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		20		6.67
CHOROTERPES SP				
LARVAE		20		6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS		117	39	52.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20	20		13.33
COLEOPTERA				
ELMIDAE				
MICROCYLLOEPUS SP				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	59	1775	527	787.00
HYDROPSYCHE SP				
LARVAE	59	956	156	390.33
HYDROPTILIDAE				
HYDROPTILA SP				
LARVAE	39		20	19.67

APPENDIX D-13-2 (Continued)

```
SITE = 30      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

            TAXON                                                       REP A     REP B     REP C         MEAN

  ARTHROPODA
      INSECTA
          TRICHOPTERA
                  HYDROPTILIDAE
                          MAYATRICHIA SP
                          -----------  -
                              LARVAE                                                          20             6.67

                  LEPTOCERIDAE
                          OECETIS SP
                          ------- --
                              LARVAE                                                20                       6.67

          LEPIDOPTERA
                  PYRALIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                                20        20            13.33

          DIPTERA
                  TIPULIDAE
                          LIMNOPHILA SP
                          ---------- --
                              LARVAE                                                59        59            39.33

                  CERATOPOGONIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      20                                 6.67

                  CHIRONOMIDAE
                          UNIDENTIFIED
                          ------------
                              PUPAE                                                 78        59            45.67

                      TANYPODINAE
                          THIENEMANNIMYIA GROUP SP
                          --------------- ----- --
                              LARVAE                                                20                       6.67

                      DIAMESINAE
                          MONODIAMESA SP
                          ----------- --
                              LARVAE                                      20                                 6.67

                      ORTHOCLADIINAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      20        20        39            26.33
```

APPENDIX D-13-2 (Continued)

```
SITE = 30      SITE DESC = LOWER WHITE RIVER     COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


         TAXON                                                          REP A     REP B     REP C          MEAN


   ARTHROPODA
      INSECTA
         DIPTERA
               CHIRONOMIDAE
                  ORTHOCLADIINAE
                     CRICOTOPUS SP
                     ---------- --
                        LARVAE                                                                20            6.67

                     CRICOTOPUS CRICOTOPUS
                     ---------- ----------
                        LARVAE                                                                39           13.00

                     CRICOTOPUS CRICOTOPUS BICINCTUS
                     ---------- ---------- ---------
                        LARVAE                                                      20        20           13.33

                     CRICOTOPUS CRICOTOPUS TRIFASCIA
                     ---------- ---------- ---------
                        LARVAE                                            39        39                     26.00

                     EUKIEFFERIELLA SP
                     -------------- --
                        LARVAE                                                      20        39           19.67

                     PARAKIEFFERIELLA SP
                     ---------------- --
                        LARVAE                                                                20            6.67

                  CHIRONOMINAE
                     CHIRONOMINI SP
                     ----------- --
                        LARVAE                                                                20            6.67

                     CHIRONOMUS SP. GROUP 2
                     ---------- --- ----- -
                        LARVAE                                            20                                6.67

                     HARNISCHIA SP
                     ---------- --
                        LARVAE                                            20                                6.67
```

APPENDIX D-13-2 (Continued)

```
SITE = 30      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD = TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.6


          TAXON                                                            REP A    REP B    REP C        MEAN

ARTHROPODA
   INSECTA
      DIPTERA
            CHIRONOMIDAE
               CHIRONOMINAE
                  MICROTENDIPES SP
                  ------------- --
                     LARVAE                                                  20                            6.67

                  PHAENOPSECTRA PHAENOPSECTRA
                  ------------- -------------
                     LARVAE                                                           20                   6.67

                  POLYPEDILUM FALLAX GROUP
                  ----------- ------ -----
                     LARVAE                                                  20                            6.67

                  TANYTARSINI SP
                  ----------- --
                     LARVAE                                                  20                            6.67

                  CLADOTANYTARSUS SP
                  --------------- --
                     LARVAE                                                           59       20         26.33

                  PARATANYTARSUS SP
                  -------------- --
                     LARVAE                                                           20                   6.67

                  RHEOTANYTARSUS SP
                  -------------- --
                     LARVAE                                                           39       39         26.00

            SIMULIIDAE
                  UNIDENTIFIED
                  ------------
                     LARVAE                                                           20                   6.67
```

APPENDIX D-13-2 (Continued)

SITE = 31 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	59	59	39	52.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP	78	59		45.67
NAIS BEHNINGI	507	332	195	344.67
NAIS ELINGUIS		59	39	32.67
ARTHROPODA				
INSECTA				
COLLEMBOLA			20	6.67
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE			98	32.67
BAETIS SP				
LARVAE	39	20	59	39.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	39		20	19.67
RHITHROGENA SP				
LARVAE	59	39		32.67

APPENDIX D-13-2 (Continued)

SITE = 31 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	39	20	20	26.33
CHOROTERPES SP				
LARVAE	78	39	20	45.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	117		78	65.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	117	59	39	71.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE			20	6.67
TRICHOPTERA				
RHYACOPHILIDAE				
GLOSSOSOMATINAE				
UNIDENTIFIED				
LARVAE	39	39	39	39.00
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	2594	1385	780	1586.33
HYDROPSYCHE SP				
LARVAE	1287	1014	527	942.67
HYDROPTILIDAE				
HYDROPTILA SP				
LARVAE	59		20	26.33

APPENDIX D-13-2 (Continued)

```
SITE = 31      SITE DESC = LOWER WHITE RIVER     COLLECTION METHOD =  TALL CIRCLE SURBER     CONVERSION FACTOR APPLIED= 19.5


          TAXON                                                            REP A    REP B    REP C         MEAN


 ARTHROPODA
     INSECTA
         TRICHOPTERA
                   HYDROPTILIDAE
                             MAYATRICHIA SP
                             ----------- --
                                  LARVAE                                            20                     6.67

                   LEPTOCERIDAE
                             OECETIS SP
                             ------- --
                                  LARVAE                                   20                              6.67

         DIPTERA
                   TIPULIDAE
                             LIMNOPHILA SP
                             ---------- --
                                  LARVAE                                            98       39           45.67

                   CHIRONOMIDAE
                             UNIDENTIFIED
                             ------------
                                  PUPAE                                    20       78       20           39.33

                        TANYPODINAE
                             ABLABESMYIA SP
                             ----------- --
                                  LARVAE                                   20                              6.67

                        ORTHOCLADIINAE
                             UNIDENTIFIED
                             ------------
                                  LARVAE                                   20                78           32.67

                             CRICOTOPUS CRICOTOPUS
                             ---------- ----------
                                  LARVAE                                   20                39           19.67

                             CRICOTOPUS CRICOTOPUS BICINCTUS
                             ---------- ---------- ---------
                                  LARVAE                                   20                20           13.33

                             CRICOTOPUS CRICOTOPUS TRIFASCIA
                             ---------- ---------- ---------
                                  LARVAE                                   39       39      117           65.00
```

APPENDIX D-13-2 (Continued)

```
SITE = 31      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

        TAXON                                                      REP A     REP B     REP C          MEAN


  ARTHROPODA
      INSECTA
          DIPTERA
                  CHIRONOMIDAE
                      ORTHOCLADIINAE
                          EUKIEFFERIELLA SP
                          ------------- --
                              LARVAE                                          39                      13.00

                          ORTHOCLADIUS SP
                          ------------ --
                              LARVAE                                59        59        39            52.33

                          PARAKIEFFERIELLA SP
                          ---------------- --
                              LARVAE                                20                                 6.67

                      CHIRONOMINAE
                          MICROTENDIPES SP
                          ------------- --
                              LARVAE                               117        20                      45.67

                          PARACLADOPELMA SP
                          ------------- --
                              LARVAE                                                    20             6.67

                          POLYPEDILUM SP
                          ----------- --
                              LARVAE                                          20        20            13.33

                          CLADOTANYTARSUS SP
                          --------------- --
                              LARVAE                                20                  39            19.67

                          RHEOTANYTARSUS SP
                          -------------- --
                              LARVAE                               156        20        98            91.33

                  SIMULIIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                          20        20            13.33
```

APPENDIX D-13-2 (Continued)

SITE = 32   SITE DESC = LOWER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXA	REP A	REP B	REP C	MEAN
NEMATODA	20	78	20	39.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20			6.67
NAIDIDAE				
NAIS SP	273	39	195	169.00
NAIS BEHNINGI	449	702	644	598.33
NAIS ELINGUIS		39	39	26.00
ARTHROPODA				
ARACHNIDA				
ACARI			39	13.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED LARVAE	59	20	39	39.33
BAETIS SP LARVAE	78	8		52.00
DACTYLOBAETIS SP LARVAE			39	13.00

APPENDIX D-13-2 (Continued)

SITE = 32 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20	117		45.67
RHITHROGENA SP				
LARVAE	20	39	39	32.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	20	20		13.33
CHOROTERPES SP				
LARVAE		20	215	78.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	39	137	20	65.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	39	156	59	84.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE			20	6.67
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
LARVAE			20	6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	546	761	527	611.33

APPENDIX D-13-2 (Continued)

```
SITE = 32      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

          TAXON                                                          REP A    REP B    REP C         MEAN

 ARTHROPODA
     INSECTA
         TRICHOPTERA
                 HYDROPSYCHIDAE
                         HYDROPSYCHE SP
                         ----------- --
                             LARVAE                                       215      312      449        325.33

                 HYDROPTILIDAE
                         HYDROPTILA SP
                         ---------- --
                             LARVAE                                                 78                  26.00

         DIPTERA
                 TIPULIDAE
                         LIMNOPHILA SP
                         ---------- --
                             LARVAE                                                          78         26.00

                 CERATOPOGONIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                                 20                   6.67

                 CHIRONOMIDAE
                         UNIDENTIFIED
                         ------------
                             PUPAE                                         78       59       59         65.33

                     TANYPODINAE
                         LARSIA SP
                         ------ --
                             LARVAE                                                          20          6.67

                     DIAMESINAE
                         ODONTOMESA SP
                         ---------- --
                             LARVAE                                                 20                   6.67

                     ORTHOCLADIINAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                                 39       39         26.00

                         CRICOTOPUS CRICOTOPUS
                         ---------- ----------
                             LARVAE                                        20       59       20         33.00
```

APPENDIX D-13-2 (Continued)

SITE = 32 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE			20	6.67
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE	39	176	20	78.33
EUKIEFFERIELLA SP				
LARVAE		20		6.67
MICROCRICOTOPUS SP				
LARVAE		20	20	13.33
ORTHOCLADIUS SP				
LARVAE		39	117	52.00
PARACLADIUS SP				
LARVAE		20		6.67
PARAKIEFFERIELLA SP				
LARVAE		20		6.67
PARAPHAENOCLADIUS SP				
LARVAE			20	6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		59	96	52.33

APPENDIX D-13-2 (Continued)

SITE = 32　　SITE DESC = LOWER WHITE RIVER　　COLLECTION METHOD = TALL CIRCLE SURBER　　CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
PARACLADOPELMA SP				
LARVAE	20	78		32.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	20		20	13.33
RHEOTANYTARSUS SP				
LARVAE	20	137	117	91.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	59	20		26.33

APPENDIX D-13-2 (Continued)

SITE = 33 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	20		13.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	78	59	98	78.33
NAIDIDAE				
NAIS SP	20	98	20	46.00
NAIS BEHNINGI	2360	2262	917	1846.33
NAIS ELINGUIS	20			6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		39		13.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
CENTROPTILUM SP				
LARVAE			20	6.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20		6.67

APPENDIX D-13-2 (Continued)

SITE = 33 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHOROTERPES SP				
LARVAE	39	98	39	58.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	117	195	20	110.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	176	215	39	143.33
HEMIPTERA				
CORIXIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
COLEOPTERA				
ELMIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
ZAITZEVIA SP				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	156	137	117	136.67
HYDROPSYCHE SP				
LARVAE	234	137	117	162.67
HYDROPTILIDAE				
UNIDENTIFIED				
PUPAE		20		6.67

APPENDIX D-13-2 (Continued)

```
SITE = 33      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5


          TAXON                                                                REP A     REP B     REP C        MEAN


ARTHROPODA
    INSECTA
        TRICHOPTERA
                HYDROPTILIDAE
                        HYDROPTILA SP
                        ---------- --
                            LARVAE                                                39        20                    19.67

                LEPTOCERIDAE
                        OECETIS SP
                        ------- --
                            LARVAE                                                20                                6.67

        LEPIDOPTERA
                PYRALIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                                39                               13.00

        DIPTERA
                TIPULIDAE
                        LIMNOPHILA SP
                        ---------- --
                            LARVAE                                               215        78       137          143.33

                CHIRONOMIDAE
                        UNIDENTIFIED
                        ------------
                            PUPAE                                                156        59        59           91.33

                    TANYPODINAE
                        LARSIA SP
                        ------ --
                            LARVAE                                                          20                      6.67

                        THIENEMANNIMYIA GROUP SP
                        --------------- ----- --
                            LARVAE                                                39        20                     19.67

                    ORTHOCLADIINAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                               156        20                     58.67

                        CRICOTOPUS CRICOTOPUS
                        ---------- ----------
                            LARVAE                                                98                  59           52.33
```

APPENDIX D-13-2 (Continued)

SITE = 33 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE	20	39	20	26.33
ORTHOCLADIUS SP				
LARVAE	137	78		71.67
PARAKIEFFERIELLA SP				
LARVAL	39	156	176	123.67
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	20			6.67
MICROTENDIPES SP				
LARVAE	59	137	20	72.00
PARACLADOPELMA SP				
LARVAE	20			6.67
POLYPEDILUM SP				
LARVAE	98	20	39	52.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20			6.67

APPENDIX D-13-2 (Continued)

```
SITE = 33      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

         TAXON                                                      REP A     REP B     REP C          MEAN

 ARTHROPODA
     INSECTA
         DIPTERA
                 CHIRONOMIDAE
                     CHIRONOMINAE
                         TANYTARSUS SP
                         ---------- --
                             LARVAE                                            20                      6.67

                         CLADOTANYTARSUS SP
                         --------------- --
                             LARVAE                                 59        98                      52.33

                         PARATANYTARSUS SP
                         -------------- --
                             LARVAE                                 78                                26.00

                         RHEOTANYTARSUS SP
                         -------------- --
                             LARVAE                                 39        39        20            32.67

                 EMPIDIDAE
                         CLINOCERA SP
                         --------- --
                             LARVAE                                                     20             6.67
```

APPENDIX D-13-2 (Continued)

```
SITE = 34      SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD =  TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

          TAXON                                                          REP A     REP B     REP C          MEAN

  NEMATODA                                                                 20                                 6.67

  ANNELIDA
      OLIGOCHAETA
          HAPLOTAXIDA
                  TUBIFICIDAE
                          IMMATURES W/O CAP. CHAETAE SP
                          --------- - - ---  ------- --                                        20             6.67

                  NAIDIDAE
                          NAIS BEHNINGI
                          ---- --------                                    98        20        20            46.00

  ARTHROPODA
      ARACHNOIDEA
          ACARI                                                                                20             6.67

      INSECTA
          EPHEMEROPTERA
                  BAETIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                      117                                39.00

                          BAETIS SP
                          ------ --
                              LARVAE                                       59                                19.67

                  HEPTAGENIIDAE
                          RHITHROGENA SP
                          ----------- --
                              LARVAE                                     3120      1287      2321          2242.67

                  LEPTOPHLEBIIDAE
                          UNIDENTIFIED
                          ------------
                              LARVAE                                       39                                13.00

                          TRAVERELLA ALBERTANA
                          ---------- ---------
                              LARVAE                                       20                                 6.67
```

APPENDIX D-13-2 (Continued)

```
SITE = 34     SITE DESC = LOWER WHITE RIVER    COLLECTION METHOD = TALL CIRCLE SURBER    CONVERSION FACTOR APPLIED= 19.5

        TAXON                                                          REP A    REP B    REP C        MEAN

ARTHROPODA
    INSECTA
        EPHEMEROPTERA
                EPHEMERELLIDAE
                        EPHEMERELLA SP
                        ----------- --
                            ADULTS                                       39       39       39        39.00

                TRICORYTHIDAE
                        TRICORYTHODES SP
                        ------------- --
                            LARVAE                                                         20         6.67

        PLECOPTERA
                        UNIDENTIFIED
                        ------------
                            LARVAE                                      117       78       39        78.00

        TRICHOPTERA
                HYDROPSYCHIDAE
                        UNIDENTIFIED
                        ------------
                            LARVAE                                       59       39       39        45.67

                        HYDROPSYCHE SP
                        ----------- --
                            LARVAE                                      585       39       39       221.00

                HYDROPTILIDAE
                        HYDROPTILA SP
                        ---------- --
                            LARVAE                                       20                           6.67

        DIPTERA
                TIPULIDAE
                        LIMNOPHILA SP
                        ---------- --
                            LARVAE                                      137      156       78       123.67

                CHIRONOMIDAE
                    ORTHOCLADIINAE
                        CRICOTOPUS CRICOTOPUS
                        ---------- ----------
                            LARVAE                                       20                           6.67

                        CRICOTOPUS CRICOTOPUS TRIFASCIA
                        ---------- ---------- ---------
                            LARVAE                                                20                  6.67
```

APPENDIX D-13-2 (Continued)

SITE = 34 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	20			6.67
ORTHOCLADIUS SP				
LARVAE	98	20		39.33
PARAKIEFFERIELLA SP				
LARVAE			20	6.67
ORTHOCLADIINAE SP. 1				
LARVAE		20	20	13.33
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE			20	6.67
PARACLADOPELMA SP				
LARVAE		20		6.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE		20		6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	98	20	39	52.33
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE		20		6.67

APPENDIX D-13-2 (Continued)

SITE = 35   SITE DESC = LOWER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		20	20	13.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	215	59	78	117.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20			6.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	78	39	137	84.67
TRICHOPTERA				
RHYACOPHILIDAE				
GLOSSOSOMATINAE				
UNIDENTIFIED				
LARVAE	78	39		39.00
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	566	488	390	481.33
HYDROPSYCHE SP				
LARVAE	819	410	546	591.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	117	215	156	162.67

APPENDIX D-13-2 (Continued)

SITE = 35 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39			13.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	59			19.67
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP		20		6.67
NAIDIDAE				
NAIS SP			20	6.67
NAIS BEHNINGI	468	98	59	208.33
ARTHROPODA				
ARACHNOIDEA				
ACARI		20		6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	546	507	488	513.67
BAETIS SP				
LARVAE	20	98	273	130.33
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	1112	995	1424	1177.00

APPENDIX D-13-2 (Continued)

SITE = 35   SITE DESC = LOWER WHITE RIVER   COLLECTION METHOD = TALL CIRCLE SURBER   CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	59	59	20	46.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	20	20	20	20.00
CRICOTOPUS CRICOTOPUS				
LARVAE			20	6.67
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE	156	59	20	78.33
EUKIEFFERIELLA SP				
LARVAE	39			13.00
ORTHOCLADIUS SP				
LARVAE	215	117	59	130.33
PARAKIEFFERIELLA SP				
LARVAE		20		6.67
SMITTIA SP				
LARVAE	78			26.00
ORTHOCLADIINAE SP. 4				
LARVAE	20			6.67

APPENDIX D-13-2 (Continued)

SITE = 35 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	20			6.67
CLADOTANYTARSUS SP				
LARVAE	59	39	20	39.33
PARATANYTARSUS SP				
LARVAE	20			6.67
RHEOTANYTARSUS SP				
LARVAE		20		6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	234	195	195	208.00
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	20			

APPENDIX D-13-2 (Continued)

SITE = 25 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR APPLIED= 1.0

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	1	3		1.33
ANNELIDA				
OLIGOCHAETA				
UNIDENTIFIED	138	21	6	55.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1	5	7	4.33
BAETIS SP				
LARVAE	31	7	20	19.33
DACTYLOBAETIS SP				
LARVAE	1			.33
LACHLANIA SP				
LARVAE	1			.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	6	1		2.33
RHITHROGENA SP				
LARVAE			1	.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	3	2	1	2.00

APPENDIX D-13-2 (Continued)

SITE = 25 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR APPLIED: 1.0

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHOROTERPES SP				
LARVAE	1	1	3	1.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
ADULTS	3			1.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	2			.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE			1	.33
OPHIOGOMPHUS SP				
LARVAE		1	1	.67
COLEOPTERA				
ELMIDAE				
MICROCYLLOEPUS SP				
LARVAE	1			.33
TRICHOPTERA				
RHYACOPHILIDAE				
GLOSSOSOMATINAE				
UNIDENTIFIED				
LARVAE	1	1	2	1.33
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	96	27	54	59.00
HYDROPSYCHE SP				
LARVAE	97	37	66	66.67

APPENDIX D-13-2 (Continued)

```
SITE = 25      SITE DESC = UPPER WHITE RIVER    COLLECTION METHOD =  D-FRAME           CONVERSION FACTOR APPLIED =  1

          TAXON                                                         REP A    REP B    REP C        MEAN

 ARTHROPODA
     INSECTA
         TRICHOPTERA
                 HYDROPTILIDAE
                         HYDROPTILA SP
                         ---------- --
                             LARVAE                                        3                          1.00

         LEPIDOPTERA
                 PYRALIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                        2                           .67

         DIPTERA
                 TIPULIDAE
                         LIMNOPHILA SP
                         ---------- --
                             LARVAE                                        2                 5        2.33

                 CHIRONOMIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                       32       12       11       18.33

                         UNIDENTIFIED
                         ------------
                             PUPAE                                         4        2        3        3.00

                 SIMULIIDAE
                         UNIDENTIFIED
                         ------------
                             LARVAE                                       13        7       10       10.00
```

2.4.8 Fish

2.4.7 Macrophytes

2.4.6 Sediment Chemistry

Miscellaneous

2.4.6 Sediment Chemistry

2.4.6.1 Objectives

The objectives of the sediment chemistry studies remain unchanged from Progress Report 2. See section 2.4.6.1 of Progress Report 2 for specific objectives.

2.4.6.2 Methods

With the exception of analysis for arsenic which consists of a digestion procedure (EPA, 1973) followed by colorimetric analysis according to APHA (1971), no change in methods has occurred since Progress Report 3. See section 2.4.5.2 and 2.4.6.2 of Progress Reports 2 and 3, respectively, for specific methods used for sediment chemistry studies.

2.4.6.3 Results

Appendices D-14-1 through D-16-2 present the results of chemical analysis of sediment samples taken during the July - August and August - September 1975 sampling periods. A summary of selected parameters for the White River and Yellow Creek are presented below. With the exception of aluminum, concentrations of the selected parameters were similar in the two streams during both sampling periods.

July - August	White River	Yellow Creek
Aluminum (μg/g)	3300-7800	5600-18300
Arsenic (μg/g)	1- 6	2- 9
Lead (μg/g)	4- 9	7- 16
Zinc (μg/g)	30- 65	19- 64

August - September	White River	Yellow Creek
Aluminum (μg/g)	3100-10600	7200-15000
Arsenic (μg/g)	2- 6	3- 8
Lead (μg/g)	5- 11	6- 13
Zinc (μg/g)	22- 49	25- 54

2.4.6 - Sediment Chemistry Data

APPENDIX D - 14 - 1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975.

RBOSP PROGRESS REPORT

APPENDIX D-14-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975. (Results are expressed in µg/g unless otherwise noted.)[1]

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl N (N)	Total Phosphate (P)	Volatile Solids	Zinc (ZN)
1-A	14500	30	20	100	2050	923	85300	96
1-B	15200	28	23	100	2270	937	79100	94
2-A	13700	28	20	100	857	980	44400	69
2-B	14000	31	19	200	842	965	47700	66
3-A	12300	9	13	100	849	324	61900	47
3-B	12300	6	12	100	769	808	61100	47
4-A	11900	21	15	< 100	804	695	37100	57
4-B	12000	22	18	100	713	713	36000	57
5-A	13200	2	17	100	450	650	50000	48
5-B	12300	3	16	100	415	659	49500	48
7-A	10700	7	11	100	1270	728	46100	43
7-B	10900	7	12	100	1290	716	45500	44
8-A	12600	9	14	< 100	663	758	45800	46
8-B	12800	9	15	< 100	646	714	42600	45
9-A	12200	24	32	100	561	722	34300	51
9-B	12100	22	32	< 100	584	787	35600	87
13-A	11200	13	17	< 100	372	720	30000	48
13-B	11100	13	18	< 100	385	689	32800	50
14-A	15500	3	12	< 100	788	625	42000	43
14-B	15500	3	12	100	995	657	44800	45
15-A	10100	9	13	< 100	175	578	21400	32
15-B	9800	8	12	100	162	537	21400	32
17-A	11900	2	9	100	216	537	22700	33
17-B	11700	3	8	< 100	227	524	22300	35
18-A	11100	5	12	< 100	227	622	21600	31
18-B	11700	4	12	< 100	226	580	21800	31

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[1] Stations 6, 10-12 and 16 were dry at the time of sampling.

APPENDIX D-14-1 (Continued)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl N (N)	Total Phosphate (P)	Volatile Solids	Zinc (ZN)
19-A	18300	5	16	200	2440	958	79200	65
19-B	16800	5	16	100	2250	969	74600	64
20-A	14700	8	12	< 100	725	725	35500	59
20-B	13100	9	12	< 100	705	684	34100	56
21-A	7500	5	8	< 100	182	543	18100	31
21-B	7700	5	8	300	188	547	18200	38
22-A	5700	2	7	200	175	522	14500	30
22-B	5600	3	9	< 100	154	549	14000	31
23-A	5300	4	7	< 100	270	458	15600	26
23-B	5000	4	7	< 100	269	446	15200	26
24-A	4900	1	6	< 100	255	411	13600	26
24-B	4500	2	6	< 100	252	403	14600	25
25-A	3600	5	7	< 100	119	676	9900	63
25-B	3700	6	7	< 100	130	679	10200	64
26-A	4600	4	5	< 100	226	413	11600	36
26-B	4000	4	4	< 100	207	425	11800	32
27-A	4600	1	5	< 100	287	371	10600	23
27-B	4500	2	5	< 100	266	351	10000	21
28-A	7200	3	6	< 100	281	421	16800	34
28-B	7200	3	6	< 100	274	439	16600	32
29-A	4400	3	7	< 100	219	415	9710	26
29-B	3900	3	6	< 100	213	403	10000	20
30-A	3800	3	4	100	224	379	10100	19
30-B	4200	2	4	100	246	362	10500	21
31-A	3600	5	6	100	145	636	8490	25
31-B	3300	5	6	100	138	640	9080	27
32-A	4900	2	7	900	189	335	10400	21
32-B	4500	2	8	300	199	350	10300	21

APPENDIX D-14-1 (Continued)

	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl N (N)	Total Phosphate (P)	Volatile Solids	Zinc (ZN)
-A	[illegible]	2	7	300	635	430	20500	31
-B	7400	2	8	100	654	425	21300	31
-A	4600	3	8	<100	167	457	11400	26
-B	4600	3	9	<100	146	436	10800	23
-A	5400	1	6	<100	241	354	11700	28
-B	5400	<1	6	<100	235	362	11500	27

APPENDIX D-15-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975

APPENDIX D-15-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975. (Results are expressed in μg/g unless otherwise noted)[1]

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl N (N)	Total Phosphate (P)	Volatile Solids	Zinc (ZN)
1-A	13700	50	44	56	1220	990	61000	77
1-B	13800	50	36	62	1150	942	59000	76
2-A	12300	31	18	36	791	997	48300	64
2-B	11900	29	18	40	837	999	49700	65
3-A	11600	9	14	80	4560	1030	118000	56
3-B	11800	8	18	82	4490	1030	116000	54
4-A	10900	12	10	24	1460	823	50300	47
4-B	11700	14	9	24	1350	844	46900	48
5-A	9900	6	10	40	307	623	27600	46
5-B	10300	6	10	20	276	583	26600	47
7-A	10500	15	6	42	472	766	31900	42
7-B	10900	18	7	60	510	776	32900	44
8-A	10100	18	10	68	338	727	26000	46
8-B	10500	20	11	40	347	660	27000	46
9-A	11000	28	44	42	521	773	31000	51
9-B	10600	23	36	76	527	742	32000	51
12-A	10900	29	18	20	510	849	31100	55
12-B	11500	23	18	<20	511	854	31800	53
13-A	9100	14	14	26	412	705	25800	44
13-B	9100	15	18	<20	413	627	25000	42
14-A	13200	3	10	50	421	575	27200	36
14-B	10800	3	9	<20	408	559	27400	36
17-A	12800	3	10	<20	303	569	22100	34
17-B	11600	2	10	<20	290	587	23100	35
19-A	7300	3	6	<20	173	610	17000	26
19-B	7800	4	7	<20	180	688	17500	30
20-A	13800	7	10	62	665	641	35800	51
20-B	15000	7	11	72	754	676	41300	54

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[1] Stations 6, 10, 11, 15, 16 and 18 were dry at the time of sampling.

APPENDIX D-15-1 (Continued)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl N (N)	Total Phosphate (P)	Volatile Solids	Zinc (ZN)
21-A	7200	6	13	<20	200	565	20000	33
21-B	7900	8	8	<20	198	545	19600	33
22-A	4400	5	6	30	117	596	13900	27
22-B	4300	5	6	34	118	620	12700	25
23-A	4700	5	6	30	246	470	16600	25
23-B	5000	4	6	40	267	466	17300	27
24-A	5000	2	5	44	269	434	15300	26
24-B	4800	3	5	44	259	397	14500	26
25-A	3400	5	7	24	134	788	9900	29
25-B	3100	5	7	40	135	807	9480	24
26-A	6300	3	7	68	680	458	27500	33
26-B	5100	3	6	68	426	344	18200	27
27-A	8500	2	8	28	1150	503	45500	41
27-B	7700	3	8	28	1020	528	40400	38
28-A	10600	4	10	64	1690	869	52900	49
28-B	10000	4	10	50	1720	845	52800	47
29-A	8700	4	10	40	899	703	38500	43
29-B	8500	4	10	30	913	731	37400	42
30-A	10200	4	10	58	1720	778	50500	47
30-B	9000	4	9	40	1620	807	51200	46
31-A	3100	6	6	64	93	795	8550	24
31-B	3400	6	6	58	88	766	7170	24
32-A	3400	2	5	40	142	386	9210	22
32-B	3500	3	5	50	169	405	10400	25
33-A	4100	2	7	74	247	316	12400	23
33-B	4300	3	6	58	268	416	13500	23
34-A	4500	6	7	24	214	551	13100	28
34-B	3800	5	8	28	215	549	13100	28
35-A	8100	4	11	28	650	534	28800	38
35-B	8300	4	10	38	778	575	34000	39

APPENDIX D - 16 - 1

RESULTS OF SEDIMENT HERBICIDE ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975.

APPENDIX D-16-1

RESULTS OF SEDIMENT HERBICIDE ANALYSIS, RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975. (Data are expressed in µg/g.)[1]

Station	Parameter	
	Tordon 22k	Silvex
1-A	<0.02	<0.02
1-B	<0.02	<0.02
2-A	<0.02	<0.02
2-B	<0.02	<0.02
3-A	<0.02	<0.02
3-B	<0.02	<0.02
4-A	<0.02	<0.02
4-B	<0.02	<0.02
5-A	<0.02	<0.02
5-B	<0.02	<0.02
7-A	<0.02	<0.02
7-B	<0.02	<0.02
8-A	<0.02	<0.02
8-B	<0.02	<0.02
9-A	<0.02	<0.02
9-B	<0.02	<0.02
13-A	<0.02	<0.02
13-B	<0.02	<0.02
14-A	<0.02	<0.02
14-B	<0.02	<0.02
15-A	<0.02	<0.02
15-B	<0.02	<0.02
17-A	<0.02	<0.02
17-B	<0.02	<0.02
18-A	<0.02	<0.02
18-B	<0.02	<0.02
19-A	<0.02	<0.02
19-B	<0.02	<0.02
20-A	<0.02	<0.02
20-B	<0.02	<0.02
21-A	<0.02	<0.02
21-B	<0.02	<0.02
22-A	<0.02	<0.02
22-B	<0.02	<0.02
23-A	<0.02	<0.02
23-B	<0.02	<0.02
24-A	<0.02	<0.02
24-B	<0.02	<0.02
25-A	<0.02	<0.02
25-B	<0.02	<0.02

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[1] Stations 6, 10-12 and 16 were dry at the time of sampling.

APPENDIX D-16- 1 (Continued)

Station	Parameter	
	Tordon 22k	Silvex
26-A	<0.02	<0.02
26-B	<0.02	<0.02
27-A	<0.02	<0.02
27-B	<0.02	<0.02
28-A	<0.02	<0.02
28-B	<0.02	<0.02
29-A	<0.02	<0.02
29-B	<0.02	<0.02
30-A	<0.02	<0.02
30-B	<0.02	<0.02
31-A	<0.02	<0.02
31-B	<0.02	<0.02
32-A	<0.02	<0.02
32-B	<0.02	<0.02
33-A	<0.02	<0.02
33-B	<0.02	<0.02
34-A	<0.02	<0.02
34-B	<0.02	<0.02
35-A	<0.02	<0.02
35-B	<0.02	<0.02

RBOSP PROGRESS REPORT

APPENDIX D - 16 - 2

RESULTS OF SEDIMENT HERBICIDE ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-16- 2

RESULTS OF SEDIMENT HERBICIDE ANALYSIS, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975. (Data are expressed in μg/g .)[1]

Station	Parameter	
	Tordon 22k	Silvex
1-A	<0.02	<0.02
1-B	<0.02	<0.02
2-A	<0.02	<0.02
2-B	<0.02	<0.02
3-A	<0.02	<0.02
3-B	<0.02	<0.02
4-A	<0.02	<0.02
4-B	<0.02	<0.02
5-A	<0.02	<0.02
5-B	<0.02	<0.02
7-A	<0.02	<0.02
7-B	<0.02	<0.02
8-A	<0.02	<0.02
8-B	<0.02	<0.02
9-A	<0.02	<0.02
9-B	<0.02	<0.02
13-A	<0.02	<0.02
13-B	<0.02	<0.02
14-A	<0.02	<0.02
14-B	<0.02	<0.02
15-A	<0.02	<0.02
15-B	<0.02	<0.02
17-A	<0.02	<0.02
17-B	<0.02	<0.02
18-A	<0.02	<0.02
18-B	<0.02	<0.02
19-A	<0.02	<0.02
19-B	<0.02	<0.02
20-A	<0.02	<0.02
20-B	<0.02	<0.02
21-A	<0.02	<0.02
21-B	<0.02	<0.02
22-A	<0.02	<0.02
22-B	<0.02	<0.02
23-A	<0.02	<0.02
23-B	<0.02	<0.02
24-A	<0.02	<0.02
24-B	<0.02	<0.02
25-A	<0.02	<0.02
25-B	<0.02	<0.02

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[1] Stations 6, 10-12 and 16 were dry at the time of sampling.

APPENDIX D-16-2 (Continued)

Station	Parameter	
	Tordon 22k	Silvex
26-A	<0.02	<0.02
26-B	<0.02	<0.02
27-A	<0.02	<0.02
27-B	<0.02	<0.02
28-A	<0.02	<0.02
28-B	<0.02	<0.02
29-A	<0.02	<0.02
29-B	<0.02	<0.02
30-A	<0.02	<0.02
30-B	<0.02	<0.02
31-A	<0.02	<0.02
31-B	<0.02	<0.02
32-A	<0.02	<0.02
32-B	<0.02	<0.02
33-A	<0.02	<0.02
33-B	<0.02	<0.02
34-A	<0.02	<0.02
34-B	<0.02	<0.02
35-A	<0.02	<0.02
35-B	<0.02	<0.02

APPENDIX D-17-1

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

2.4.7 - Macrophytes Data

2.4.7 Macrophytes

2.4.7.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.7.1 of Progress Report 3 for specific objectives.

2.4.7.2 Methods

No change in methods has occurred since Progress Report 2. See section 2.4.7.2 of Progress Report 2 for specific methods.

2.4.7.3 Results

Macrophytes were recorded at four stations during the July - August sampling, including Stations 2, 3, 5, and 14. Three patches of American speedwell, (Veronica americana) each 0.2 x 0.4 meters, and scattered patches of shore crowfoot (Ranunculus cymbolaria) were observed at Station 2.

American speedwell was also in scattered patches at Station 3. At Station 5, one patch (0.3 x 1.0 meters) of shore crowfoot and scattered plants of water crowfoot (Ranunculus natans) were found growing in the marsh area. Also at Station 5, an area of horned pondweed (Zannichellia palustris) 0.4 x 1.0 meters covered the bottom of the stream. Approximately 7 meters downstream from the transect at Station 5, an extensive growth of watercress (Rorippa nasturtium - aquaticum) covered the stream bottom. At Station 14 a 10 x 15 meter mat of horned pondweed was observed.

In the August - September 1975 sampling, macrophytes were found at Stations 1, 2, 3, 4, 5, 7, 9, 14, 19, 20, 21. At Stations 1, 2 and 4, American speedwell was present. Scattered plants of this species were also found at Station 5, along with watercress. At Station 5, the abundance of shore crowfoot was heavy. Scattered specimens of shore crowfoot were found at Stations 3, 7, 9 and 19. At Station 19 this species occurred with scattered individuals of three-square (Scirpus americanus) and horned pondweed. Stonewort (Chara wieneri) formed an extensive mat on the pond bottom. Horned pondweed formed a 10 x 15 meter patch at Station 14 and provided heavy cover at Stations 20 and 21. Both three-square and Bayonet-grass (Scirpus paludosus) provided moderate cover at Stations 20 and 21.

2.4.8 Fish

prings & Seepages

2.4.10 Hydrology

2.4.11 Miscellaneous

2.4.8 Fish

2.4.8.1 Objectives

The objectives of fish studies remain the same as those stated in section 2.4.0 of Progress Report 2.

2.4.8.2 Methods

No change in methods has occurred since Progress Report 2. See section 2.4.8.2 of Progress Report 2 for specific methods employed in fish studies.

2.4.8.3 Results

Fish data from the July - August sampling period are presented in Appendices D-17-1 through D-17-7 and D-17-18. During the July - August sampling period 201 fish representing ten species were captured in the White River. No fish were captured in Yellow Creek. The most abundant fish captured were flannelmouth suckers and speckled dace.

Fish data from the August - September 1975 sampling period are presented in Appendices D-17-8 through D-17-18. A total of 949 individual fish were captured in Yellow Creek and the White River. These included 12 species and two individuals of a flannelmouth bluehead sucker hybrid. Dominant taxa include speckled dace, flannelmouth sucker, fathead minnows and sculpins. The large number of fish collected reflects in part the high numbers of young-of-year fish occurring in quiet, shallow areas near the shore.

2.4.8 - Fish Data

APPENDIX D-17-1

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

RBOSP PROGRESS REPORT

APPENDIX D-17-1

FISH DATA, WHITE RIVER AND YELLOW CREEK RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Date	Station Replicate	Species	Length (mm)	Weight (gm)
7/28/75	24(1)	Flannelmouth Sucker	242	110
		Bluehead Sucker	159	35
		Mottled Sculpin	78	5
	24(2)	Flannelmouth Sucker	400	540
		"	390	525
		"	355	365
		"	403	540
		"	420	650
		"	352	490
		"	378	445
		"	309	265
		"	263	150
		"	272	185
		"	225	95
		"	134	18
		"	116	13
		Speckled Dace	76	6
	25(1)	Flannelmouth Sucker	387	550
		"	228	110
	25(2)	"	198	75
	26(1)	Bluehead Sucker	170	50
	26(2)	Black Bullhead	154	52.6
		Mottled Sculpin	81	7.2
		"	72	5.3
		Speckled Dace	82	5.6
		Speckled Dace	53	1.5
7/29/75	30(1)	Speckled Dace	61	-
	30(2)	Flannelmouth Sucker	294	234
		"	265	166
	31(1)	Flannelmouth Sucker	262	175
		"	199	95
		"	95	10
		Bluehead Sucker	161	55
		"	150	45
		"	117	25
	31(2)	No Fish Captured		
	32(1)	Flannelmouth Sucker	412	607
		"	342	370
		"	242	145
		Speckled Dace	58	1.9
		"	52	1.5
		"	51	1.4
		"	50	1.4

APPENDIX D-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
7/29/75 (Cont.)	32(2)	Speckled Dace	78	4.9
		"	53	1.6
		"	52	1.1
		"	62	2.3
		"	51	1.4
		"	54	1.6
		"	55	1.7
7/30/75	33(1)	Flannelmouth Sucker	399	635
		"	440	843
		"	445	760
		"	390	525
		"	333	365
		"	439	920
		"	390	600
		"	370	465
		"	315	265
		"	305	245
		"	314	250
		"	284	205
		"	245	115
		"	225	105
		"	235	125
		"	232	110
		"	199	60
		"	165	43.9
		"	164	39.8
		"	171	48.7
		"	181	57.6
		"	125	18.2
		"	106	11.6
		Bluehead Sucker	190	60.3
		Roundtail Chub	350	430.0
		"	189	69.9
	33(2)	Flannelmouth Sucker	432	720
		"	260	155
		"	255	140
		"	234	100
	34(1)	"	415	715
		"	395	616
		"	380	500
		"	385	450
		"	289	235
		Speckled Dace	95	7.9
		"	102	11.5
		Mottled Sculpin	79	6.5
	34(2)	Speckled Dace	102	10.2
		Mottled Sculpin	74	5.8

APPENDIX D-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
7/30/75	35(1)	No Fish Captured		
(Cont.)	35(2)	No Fish Captured		
7/31/75	27(1)	Flannelmouth Sucker	401	600
		"	450	725
		"	404	520
		"	449	795
		"	420	710
		"	426	655
		"	438	675
		"	455	715
		"	369	450
		"	442	755
		"	339	280
		"	306	215
		"	305	215
		"	293	205
		"	268	150
		"	260	130
		"	274	150
		"	256	115
		"	204	55
		"	174	25
		Carp	484	1555
		Bluehead Sucker	76	4.6
		Speckled Dace	61	2.0
		"	55	1.5
		"	68	2.9
		"	72	3.7
	27(2)	Flannelmouth Sucker	376	475
		"	406	550
		"	385	440
		"	376	600
		"	352	345
		"	308	228
		"	320	260
		"	334	290
		"	320	245
		"	286	175
		"	247	105
		"	255	115
		"	204	55
		"	250	125
		"	230	70
		"	190	35
		"	143	28.9
		"	82	4.6
		Red Shiner	47	1.0

APPENDIX D-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
7/31/75	29(1)	Roundtail Chub	306	225
		"	330	280
		Bluehead Sucker	172	30
		"	172	27
		"	156	20
		Speckled Dace	76	3.9
		"	78	4.3
		"	62	2.1
		"	79	4.4
		"	63	2.5
	29(2)	Roundtail Chub	283	150
		Mottled Sculpin	79	6.4
8/1/75	23(1)	Flannelmouth Sucker	323	310
		"	338	355
		"	252	140
		"	219	80
		"	215	70
		"	179	35
		"	81	4.6
		Bluehead Sucker	169	40
		"	150	30
		"	145	30
		"	130	20
		Speckled Dace	89	7.8
		"	71	3.3
		"	58	2.0
	23(2)	No Fish Captured		
	28(1)	Carp	469	1280
		"	48	2.1
		Flannelmouth Sucker	339	350
		"	125	15
		"	89	6.5
		Mottled Sculpin	75	5.9
		Speckled Dace	50	1.4
		"	46	1.0
	28(2)	Flannelmouth Sucker	221	65
		"	78	4.5
		"	74	4.0
		"	41	0.6
		Bluehead Sucker	226	92
		Mottled Sculpin	77	5.8
		"	75	5.1
		"	75	5.1

RBOSP PROGRESS REPORT

APPENDIX D-17-2

LIST OF FISH SPECIES AND NUMBERS CAPTURED, WHITE RIVER AND LOWER YELLOW CREEK RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1975

2.4.8.88

RBOSP PROGRESS REPORT

APPENDIX D-17-2

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Common Name	Scientific Name	Number Captured
Brown trout	*Salmo trutta*	
Mountain whitefish	*Prosopium williamsoni*	
Roundtail chub	*Gila robusta*	5
Speckled dace	*Rhinichthys osculus*	32
Fathead minnow	*Pimephales promelas*	
Red shiner	*Notropis lutrensis*	1
Carp	*Cyprinus carpio*	2
Flannelmouth sucker	*Catostomus latipinnis*	109
Bluehead sucker	*Catostomus discobolus*	15
Mountain sucker	*Catostomus platyrhynchus*	
Channel catfish	*Ictalurus punctatus*	
Black bullhead	*Ictalurus melas*	1
Mottled sculpin	*Cottus bairdi*	10
Flannelmouth X Bluehead	*Catostomus latipinnis* X *C. discobolus*	

APPENDIX D-17-3

SUMMARY OF STOMACH CONTENT ANALYSIS FOR FIVE MOTTLED SCULPIN
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-17-3

SUMMARY OF STOMACH CONTENT ANALYSES FOR FIVE MOTTLED SCULPIN RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Crustacea	-	-
Oligochaeta	-	-
Plecoptera	-	-
Ephemeroptera	20	13
Odonata	-	-
Trichoptera	20	13
Hydropsychidae	-	-
other	20	13
Lepidoptera	-	-
Coleoptera	-	-
Diptera		
Chironomidae	40	63
Simuliidae	-	-
other	20	13
Hemiptera		
Corixidae	-	-
Fish	-	-

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[1] Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

RBOSP PROGRESS REPORT

APPENDIX D-17-4

SUMMARY OF STOMACH CONTENT ANALYSIS FOR 67 FLANNELMOUTH SUCKERS
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-17-4

SUMMARY OF STOMACH CONTENT ANALYSES FOR 67 FLANNELMOUTH SUCKERS RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Nematoda	3	<1
Crustacea	1	25
Acari	16	<1
Plecoptera	6	<1
Ephemeroptera	12	4
Odonata	3	<1
Trichoptera	25	9
Hydropsychidae	19	8
Hydroptilidae	4	<1
others	12	<1
Lepidoptera	3	<1
Coleoptera	6	<1
Diptera		
Chironomidae	52	52
Simuliidae	3	<1
others	15	<1
Pelecypods	-	-
adult (terrestrial) insects	25	6
algae	21	-
plant material	33	-

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[1] Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

RBOSP PROGRESS REPORT

APPENDIX D-17-5

SUMMARY OF STOMACH CONTENT ANALYSIS FOR FIVE BLUEHEAD SUCKERS
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-17-5

SUMMARY OF STOMACH CONTENT ANALYSES FOR FIVE BLUEHEAD SUCKERS RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Ephemeroptera		
Baetidae	-	-
Diptera		
Chironomidae	60	99
Simulidae	-	-
Trichoptera		
Hydroptilidae	-	-
Lepidoptera		
Pyralidae	-	-
terrestrial insects	20	1
algae	-	-
plant material	40	-

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[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

RBOSP PROGRESS REPORT

APPENDIX D-17-6

SUMMARY OF STOMACH CONTENT ANALYSES FOR THREE ROUNDTAIL CHUBS
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-17-6

SUMMARY OF STOMACH CONTENT ANALYSES FOR THREE ROUNDTAIL CHUBS RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

	% Frequency of Occurrence
Acari	-
Ephemeroptera	
Baetidae	-
Diptera	
Chironomidae	33
Tabanidae	33
Trichoptera	
Hydropsychidae	-
terrestrial insects	-
fish	67
algae	-
plant material	33

RBOSP PROGRESS REPORT

APPENDIX D-17-7

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-17-7

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Station 24, Replicate 1, 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	225	95	32	Chironomidae
			1	Chironomidae Adult
			9	*Hydropsyche*
			4	Hydropsychidae
			1	Trichoptera - Adult Head
Flannelmouth Sucker	272	185	35	Chironomidae
			1	Heptageniidae
			1	Corixidae
			1	Diptera - Adult
				Plant - Terrestrial
				Sand - Grains
Flannelmouth Sucker	263	150	15	Chironomidae
			1	Chironomidae - Pupa
			1	Brachycentrus - Case
				Grass stock - Terrestrial
				Sand
Flannelmouth Sucker	309	265	10	Chironomidae
			1	Coleoptera - Abdomen
				Sand
Flannelmouth Sucker	378	445	20	Chironomidae
			1	*Atherix variegata*
			1	*Hydropsyche*
				UDM*
				Sand
Flannelmouth Sucker	352	490	26	Chironomidae
				Grass - Shaft
Flannelmouth Sucker	403	540	10	Chironomidae
			1	Acari
Flannelmouth Sucker	355	365	1	Nematoda
			1	Chironomidae
			1	Heptageniidae
			1	Tipulidae *Limnophila*
				Plant Material
				Sand

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*Unidentifiable digested matter.

APPENDIX D-17-7 (Continued)

Station 24, Replicate 1. 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	400	540	88	Chironomidae
			11	Acari
			1	Hempitera, terr.-Adult
			3	Ceratopogonidae
			6	*Ophiogomphus*
			6	*Ephemerella*
			1	Pyralidae *Paragyractis*
			1	*Isoperla*
			1	Formicidae
			1	*Brachycentrus*
			3	*Hydropsyche*
			1	Tricorythodes
				Sand - Grains
				Debris
Flannelmouth Sucker	400	540	70	Chironomidae
				(Ephemeroptera):
			3	Heptageniidae
			14	*Ephemerella*
			1	*Tricorythodes*
				(Trichoptera):
			4	Hydropsychidae
			13	*Hydropsyche*
			2	*Cheumatopsyche*
			1	*Brachycentrus*
			1	*Hydroptila*
				(Plecoptera):
			1	*Isoperla*
				(Odonata):
			3	*Ophiogomphus*
			3	(Coleoptera): Adults
				(Lepidoptera):
			4	*Paragyractis*
			2	(Diptera): Adults
			3	Simuliidae - Larvae
Mottled Sculpin	78	5		Ephemeroptera
			1	Heptageniidae
			1	Head Capsule (Insect)
Bluehead Sucker	159	35	40	Chironomidae
				UDM

APPENDIX D-17-7 (Continued)

Station 24, Replicate 1. 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	242	110	133	Chironomidae
			17	Chironomidae Adults
			5	*Ephemerella*
			1	*Brachycentrus*
			7	*Hydropsyche*
			6	Heptageniidae
			1	Foramicidae
			1	*Isoperla*
			1	*Hydroptila*
			1	Diptera - Adult
			1	Ceratopogonidae

Station 25, Replicate 1, 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	387(mm)	550(gm)	30	Chironomidae
				Sand, Debris
				Plant Material
Flannelmouth Sucker	228	110	5	Chironomidae
			1	Hemiptera - terr.Adult
				Debris

Station 25, Replicate 2, 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	198	75	1	Chironomidae
			1	Adult
			3	*Hydropsyche*
			1	Nematoda
			1	Trichoptera
				Seed-terr. & Grass Shaft
				Sand - Few Grains

Station 26, Replicate 1, 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Bluehead Sucker	170	50		Plant Material
				Seed. Terr.
				Debris

APPENDIX D-17-7 (Continued)

Station 26, Replicate 2. 7/28/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	81	7.2	1	Brachycentrus
				UDM
Mottled Sculpin	72	5.3		UDM

Station 30, Replicate 2, 7/29/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	265	166	21	Chironomidae
			8	Hydropsyche
			25	Adult Hydropsyche
			1	Diptera - Pupa
				Sand
				UDM
Flannelmouth Sucker	294	234	10	Chironomidae
				Sand
				UDM

Station 31; Replicate 1, 7/29/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	199	95	5	Chironomidae
			1	Lymniphilidae
				UDM
Flannelmouth Sucker	262	175	10	Chironomidae
				UDM
				Sand - Few Grains
Bluehead Sucker	150	45		UDM
Bluehead Sucker	161	55		(Cicadellidae
			1	Leaf hopper - Terr.)
				Insects - Parts
				UDM

Station 32, Replicate 1, 7/29/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	242	145		UDM
Flannelmouth Sucker	412	607	20	Chironomidae
			2	Adults (Chironomidae)
			1	Claassenia Sabulosa leg fragment

APPENDIX D-17-7 (Continued)

Station 32, Replicate 1, 7/29/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker (Continued)	continued		1 1 1	*Brachycentrus* *Ephemerella* Elmidae Plant Material UDM
Flannelmouth Sucker	342	370	1 1	Acari Tabanidae (Adult Deer Fly) Sand UDM

Station 33, Replicate 1, 7/30/75

Species	Length (mm)	Weight (gm)	#	Food Items
Roundtail Chub	350	430		-
Flannelmouth Sucker	125	18.2		UDM
Flannelmouth Sucker	171	48.7		UDM
Flannelmouth Sucker	106	11.6		UDM
Flannelmouth Sucker	164	39.8	1	Chironomidae
Flannelmouth Sucker	165	43.9	1	Chironomidae UDM
Flannelmouth Sucker	225	105		UDM
Flannelmouth Sucker	284	205		Plant Material UDM
Flannelmouth Sucker	399	635	1	Saldidae - Adult Shorebug UDM Sand Seed coat (2)
Flannelmouth Sucker	390	525		UDM

APPENDIX D-17-7 (Continued)

Station 33, Replicate 1. 7/30/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	439	920		UDM
Flannelmouth Sucker	305	245		UDM Sand
Flannelmouth Sucker	245	115		UDM Sand Plant Material
Flannelmouth Sucker	445	760	10	Chironomidae Plant Material Sand UDM
Flannelmouth Sucker	440	843	2	Chironomidae exuviae UDM Sand Plant Material
Flannelmouth Sucker	390	600	1	Coleoptera - Head only UDM
Flannelmouth Sucker	333	365		Sand Plant Material UDM
Flannelmouth Sucker	315	265	5 1	Chironomidae Internal Parasite UDM Sand
Flannelmouth Sucker	370	465	1 1 2 1	Acari *Hydropsyche* Hydropsychidae (Heads) Tipulidae UDM Sand
Flannelmouth Sucker	314	250		Seed - Terr. UDM
Flannelmouth Sucker	232	110		Water Mite Sand UDM Internal Parasite

APPENDIX D-17-7 (Continued)

Station 33, Replicate 1. 7/30/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	235	125	1	Chironomidae - pupa
				Fragments
				Algae
				UDM
				Sand
Flannelmouth Sucker	199	60		UDM
				Sand - few grains
				Algae - small amount
				Debris

Station 33, Replicate 2, 7/30/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	234	100		Internal Parasite
				UDM
				Sand
Flannelmouth Sucker	255	140		UDM
				Algae - several strains
				UDM
Flannelmouth Sucker	260	155	1	Hydropsychidae (Head)
			1	*Hydropsyche* (pupa)
				UDM
				Sand
				Algae 5%
Flannelmouth Sucker	432	720	1	Brachycentridae
				Brachycentrus
			1	*Hydropsyche* (pupa)
			2	Hydropsychidae (Heads & Frags.)
				UDM
				Algae
				Sand

Station 34, Replicate 1. 7/30/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	79	6.5		UDM
Flannelmouth Sucker	415	715		UDM

APPENDIX D-17-7 (Continued)

Station 34, Replicate 1, 7/30/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	289	235		UDM
				Internal Parasite
Flannelmouth Sucker	380	500		UDM
Flannelmouth Sucker	395	616		UDM
Flannelmouth Sucker	385	450		Hydropsyche pupa
			1	Ephemerella
			1	Heptoginiidae
			2	Hydropsychidae (larvae)
			1	Internal Parasite
				Sand
				Debris
				UDM
Mottled Sculpin	74	5.8		UDM

Station 27, Replicate 1, 7/31/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	369	450		Sand
				UDM
				Debris
				Algae 30%
Flannelmouth Sucker	401	600		Seed
				Sand
				UDM
			2	Internal Parasite
				Algae 40%
Flannelmouth Sucker	442	755	1	Diptera - Adult
Flannelmouth Sucker	450	725		UDM
				Pieces of Plant
Flannelmouth Sucker	274	150	1	Diptera - pupa frag.
			1	Hydropsychidae - head
				Sand
				Debris
				UDM
				Algae
			5	Internal Parasites

APPENDIX D-17-7 (Continued)

Station 27, Replicate 1, 7/31/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	305	215		UDM
				Sand
				Algae 80%
Flannelmouth Sucker	256	115	22	Chironomidae
			30	Formicidae (Ants)
			1	Diptera - Adult
			1	Thysanoptera (Thrips)
				UDM
Flannelmouth Sucker	293	205	1	Chironomidae
			2	Hydropsychidae
			1	Homoptera - Adult
			1	Formicidae
				Algae 15%
				UDM
Flannelmouth Sucker	174	25	1	Diptera, Pupa
				Algae
Flannelmouth Sucker	449	795		Algae - All
Flannelmouth Sucker	204	55	1	Simuliidae
			10	Chironomidae
				UDM
Flannelmouth Sucker	420	710	1	Internal Parasite
				Debris
				UDM
Flannelmouth Sucker	426	655	26	Internal Parasites
				UDM
Flannelmouth Sucker	268	150		UDM
Flannelmouth Sucker	339	280		UDM
Flannelmouth Sucker	306	215		UDM
Flannelmouth Sucker	455	715		UDM

APPENDIX D-17-7 (Continued))

Station 27, Replicate 1, 7/31/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	260	130	1	Internal Parasite UDM
Flannelmouth Sucker	438	675		UDM
Flannelmouth Sucker	404	520		Internal Parasite UDM

Station 27, Replicate 2, 7/31/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	247	105		UDM Some Sand
Flannelmouth Sucker	308	228		UDM
Flannelmouth Sucker	250	125		UDM Some Sand
Flannelmouth Sucker	352	345		Some Plant Material UDM Sand-few grains
Flannelmouth Sucker	320	260		UDM Sand-few grains Plant Material
Flannelmouth Sucker	376	600		UDM
Flannelmouth Sucker	143	28.9	2	Formicidae
Flannelmouth Sucker	82	4.6	1 1	Formicidae fragments Coleoptera eleytra
Flannelmouth Sucker	320	245	10	Chironomidae UDM Some Plant Material

APPENDIX D-17-7 (Continued)

Station 27, Replicate 2, 7/31/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	255	115	20	Chironomidae
			2	Chironomidae Adult
			1	Tipulidae
Flannelmouth Sucker	230	70	2	Acari
			1	*Hydroptila*
			2	Chironomidae - pupae
				Some Sand
				UDM
Flannelmouth Sucker	334	290	1	Cast Skin of Chironomidae
				UDM
Flannelmouth Sucker	286	175	1	Chironomidae pupa
				UDM
Flannelmouth Sucker	204	55	1	Heptageniidae
			1	Coleoptera
			1	Chironomidae, Adult
				UDM
				Seed Coats - Terr.
Flannelmouth Sucker	376	475		UDM
Flannelmouth Sucker	190	35		Plant Material - 1 piece
				UDM
Flannelmouth Sucker	406	550		UDM
				Insect - Unidentifiable
Flannelmouth Sucker	381	440		UDM
Flannelmouth Sucker	172	30	25	Chironomidae
				Seed, Terr.
				UDM
Roundtail Chub	330	280	10	Chironomidae
				Sand
				Plant Material
Bluehead Sucker	172	30	25	Chironomidae
				Seed - Terr.
				UDM

APPENDIX D-17-7 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
		Station 29, Replicate 1, 7/31/75		
Bluehead Sucker	172	30	25	Chironomidae Seed - Terr. UDM
Bluehead Sucker	172	27	30	Chironomidae
		Station 29, Replicate 2, 7/31/75		
Roundtail Chub	283	150	1 1	*Tabanus* Fish - Minnow Family UDM
Mottled Sculpin	79	6.4	2	Chironomidae
		Station 23, Replicate Qual, 8/1/75		
Mottled Sculpin	115	22.5		UDM
		Station 23, Replicate 1, 8/1/75		
Flannelmouth Sucker	252	140	1 1 2 1	*Cheumatopsyche* Formacidae Acari Internal Parasite Some Sand UDM
Flannelmouth Sucker	145	30	8	Chironomidae UDM
Flannelmouth Sucker	215	70		UDM
Flannelmouth Sucker	338	355		UDM Some Sand
Flannelmouth Sucker	81	4.6		UDM
Flannelmouth Sucker	323	310		UDM Algae

APPENDIX D-17-7 (Continued))

Station 23. Replicate 1, 8/1/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	219	80		UDM-White
Flannelmouth Sucker	130	20		UDM Internal Parasite

Station 28, Replicate 1, 8/1/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	75	5.9	1	Certapogonidae UDM
Flannelmouth Sucker	89	6.5	6 300	Chironomidae Copepods
Flannelmouth Sucker	339	350		UDM Algae
Flannelmouth Sucker	125	15	4	Acari UDM

Station 28, Replicate 2, 8/1/75

Species	Length (mm)	Weight (gm)	#	Food Items
Bluehead Sucker	226	92		UDM
Flannelmouth Sucker	74	4.0	2	Formicidae parts
Flannelmouth Sucker	41	0.6		UDM
Flannelmouth Sucker	78	4.5		UDM
Flannelmouth Sucker	221	65		UDM Some plant material
Mottled Sculpin	75	5.1		UDM
Mottled Sculpin	77	5.8		UDM
Mottled Sculpin	75	5.1	3	Chironomidae

RBOSP PROGRESS REPORT

APPENDIX D-17-8

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

FISH DATA, WHITE RIVER AND YELLOW CREEK RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Date	Station Replicate	Species		Length (mm)	Weight (gm)
9/3/75	30(1)	Flannelmouth Sucker		400	536
		"		330	284
		Speckled Dace		69	3.2
		Mottled Sculpin		77	6.6
		"		78	6.4
		"		33	0.4
		"		113	20.7
		Fathead Minnow		45	1.0
		Speckled Dace		70	4.0
		"		83	5.4
		"		82	5.8
		Mottled Sculpin		83	7.9
		"		79	6.8
		"		82	7.4
	31(1)	Mountain Sucker		91	9.2
		Fathead Minnow		55	2.0
		Speckled Dace		65	2.7
		"		70	3.4
		"		61	2.4
		"		68	3.3
		"		63	2.8
		Mottled Sculpin		89	10.3
		"		86	8.6
		Mountain Whitefish		119	15.7
		"		123	17.2
		Flannelmouth Sucker		177	46.7
		"		127	18.3
	31(2)	Mottled Sculpin		110	20.5
		"		90	9.6
		"		89	9.7
		"		89	9.1
		"		85	9.6
		Bluehead Sucker		87	7.4
		Speckled Dace		67	3.0
		"		65	2.9
		"		68	3.3
		"		81	4.9
		"		67	3.3
		"		60	2.6
		"	32	31	3.8
		"	22	20	
		"	22	36	
		"	24	22	
		"	23	23	
		"	28	27	
		"	24	32	
		"		27	
		"		28	
		"		26	

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/3/75 (Cont.)	32(1)	Speckled Dace	94	7.5
		"	89	7.1
		"	65	3.0
		"	67	3.3
		"	83	5.6
		"	60	2.0
		"	82	5.5
		"	67	3.1
		"	61	2.4
		"	76	4.3
		"	78	4.6
		"	72	3.5
		"	97	8.5
		Fathead Minnow	23	0.1
		Mottled Sculpin	71	4.7
		"	77	6.2
		"	81	6.7
		"	79	6.8
		"	30	0.3
		Flannelmouth Sucker	87	5.5
		Bluehead Sucker	89	7.2
		"	91	7.2
		"	82	6.4
		"	77	4.3
	32(2)	Speckled Dace	93	7.7
		"	84	5.3
		"	68	3.1
		"	67	3.1
		"	64	2.6
		"	67	2.8
		"	66	2.9
		"	82	5.1
		"	68	3.2
		Bluehead Sucker	77	4.6
		Mottled Sculpin	65	4.0
		"	86	8.8
9/4/75	24(1)	Speckled Dace	101	11.0
		"	98	9.4
		"	84	5.6
		"	77	4.1
		"	77	4.7
		"	87	6.1
		"	73	4.1
		"	64	2.5
		"	64	2.8
		"	62	2.4

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/4/75 (Cont.)	24(1) (Cont.)	Speckled Dace (Cont.)	70	3.4
		"	36	0.5
		Bluehead Sucker	93	7.6
		Mottled Sculpin	79	6.5
		"	80	6.1
	24(2)	Speckled Dace	70	3.3
		"	87	6.4
		"	75	3.4
		"	69	3.1
		"	92	7.8
		"	68	3.4
		"	85	6.5
		"	62	2.5
		"	65	3.0
		Mottled Sculpin	31	0.4
	25(1)	Speckled Dace	99	9.8
	25(2)	Speckled Dace	82	4.9
	26(1)	Mottled Sculpin	100	14.8
		"	76	6.2
		"	77	6.2
		"	87	10.1
		"	96	12.2
		"	102	16.3
		"	89	9.6
		"	77	6.9
		"	77	5.7
		"	40	0.7
		"	35	0.5
		Speckled Dace	82	5.7
		"	64	2.8
		"	66	3.0
		"	73	4.3
		"	64	2.6
		"	65	2.5
		"	30	0.3
	26(2)	"	65	3.1
		"	69	3.5
		"	84	6.0
		"	79	5.2
		"	70	3.4
		"	60	2.1
		"	70	3.7
		"	74	3.9
		"	74	4.4
		"	81	5.0
		"	67	3.0
		Bluehead Sucker	81	5.1

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/4/75 (Cont.)	26(2) (Cont.)	Carp	69	5.7
		Mottled Sculpin	90	10.0
		"	93	11.6
		"	79	7.2
		"	67	4.1
		"	97	13.1
		"	77	6.8
9/5/75	27(1)	Carp	488	1535
		"	451	1419
		"	76	7.1
		"	68	4.8
		Channel Catfish	376	370
		Flannelmouth Sucker	302	210
		"	284	205
		"	231	113
		"	209	77
		"	207	85.3
		"	158	34.6
		"	175	53.4
		"	193	65.2
		"	214	89.5
		"	183	56.5
		"	159	35.7
		"	138	25.8
		"	107	13.0
		"	100	-
		Roundtail Chub	272	181
		Mottled Sculpin	84	8.0
		"	79	6.8
		"	87	9.7
		"	95	13.0
		"	73	5.0
		"	82	8.0
		Speckled Dace	78	4.7
		"	86	6.5
		"	85	6.2
		"	69	3.9
		"	79	5.4
		"	81	5.9
		"	63	2.7
		"	66	3.1
		"	61	2.6
		"	75	4.1
		"	34	0.4

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/5/75	27(1)			
(Cont.)	(Cont.)	Fathead Minnow	48	1.4
		"	49	1.4
	27(2)	Flannelmouth Sucker	476	832
		"	280	184
		"	242	122
		"	189	69
		"	187	64.5
		"	109	13.9
		"	100	10.1
		Fathead Minnow	42	0.8
		"	40	0.7
		"	51	1.5
		"	45	1.0
		Bluehead Sucker	22	0.1
		Speckled Dace	69	3.8
		"	67	3.4
		"	30	0.3
		"	24	0.6
		"	27	
		"	29	
		"	68	3.7
		"	68	3.1
		"	58	2.1
		Carp	87	10.7
		"	75	7.5
		"	66	4.6
		"	61	3.8
		Mottled Sculpin	75	6.2
		"	35	0.5
		Flannelmouth Sucker	444	723
		"	460	804
		"	473	901
		"	36	0.4
		"	35	0.3
		"	32	0.2
		"	26	0.2
		"	32	0.2
		"	30	0.2
		"	34	0.3
		"	29	0.2
		"	101	8.9
		"	185	50.7
		"	170	41.8
		"	173	45.9
		"	148	29.7
		"	97	-
		"	126	17.1

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species		Length (mm)	Weight (gm)
9/5/75 (Cont.)	28(1) (Cont.)	Flannelmouth Sucker		97	8.1
		"		93	6.5
		"		131	20.4
		"		110	12.1
		"		105	10.5
		"		109	10.7
		"		94	6.7
		"		110	11.1
		"		55	1.4
		"		113	14.2
		"		100	9.1
		"		103	9.0
		"		95	7.9
		"		92	6.7
		"		110	11.1
		"		95	7.5
		"		96	7.6
		"		92	6.4
		"		92	6.3
		"		81	5.4
		"		98	7.8
		"		96	7.2
		"		95	7.9
		"		93	6.5
		"		96	7.2
		"		86	6.0
		"		90	6.4
		"		26	0.1
		Fathead Minnow	62	50	61.3
		"	63	43	
		"	59	50	
		"	56	59	
		"	38	59	
		"	50	65	
		"	62	60	
		"	63	51	
		"	64	60	
		"	65	50	
		"	61	49	
		"	45	66	
		"	42	40	
		"	47	48	
		"	47	48	
		"	55	47	

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species		Length (mm)	Weight (gm)
9/5/75 (Cont.)	28(1) (Cont.)	Speckled Dace		97	9.7
		"		68	3.2
		"		69	3.2
		"		88	6.9
		"		70	3.2
		"		67	3.1
		"		70	3.4
		"		62	2.8
		"	36	38	6.4
		"	30	34	
		"	36	29	
		"	35	31	
		"	34	35	
		"	28	31	
		"	21	28	
		"	26	31	
		"	27	25	
		"	26	26	
		"	27	25	
		"	25	30	
		Mottled Sculpin		85	8.8
		"		66	3.6
		"		93	10.1
		"		84	9.0
		"		82	7.5
		"		87	8.9
		Carp		85	10.5
		"		68	5.3
		"		75	7.0
		"		70	5.4
		"		72	5.8
		"		67	5.1
		"		68	5.3
		Bluehead Sucker		39	0.5
		"		39	0.5
		"		40	0.6
		"		38	0.5
		"		30	0.2
		"		32	0.3
		"		34	0.3
		"		34	0.3
		"		28	0.2
		"		30	0.2
		"		24	0.1
		"		91	8.2

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species		Length (mm)	Weight (gm)
9/5/75 (Cont.)	28(1) (Cont.)	Bluehead Sucker		94	9.4
		"		94	8.6
		"		71	3.5
		"		76	4.2
		"		89	7.3
		"		81	4.7
		"		84	4.9
		"		82	6.2
		"		95	8.2
		"		86	4.6
		"		87	6.7
		"		93	7.8
		"		87	7.2
		"		80	4.9
		"		59	1.8
		"		90	7.6
		"		83	5.2
		Roundtail Chub		275	196.0
		Flannelmouth x Bluehead		104	9.9
	28(2)	Carp		80	9.6
		"		66	4.5
		"		64	4.9
		Fathead Minnow	57	63	35.1
		"	48	44	
		"	43	44	
		"	59	59	
		"	56	64	
		"	46	67	
		"	41	51	
		"	44	42	
		"	42	46	
		"	39	48	
		"	35	43	
		Speckled Dace		71	3.9
		"		65	2.9
		"		87	6.0
		"		66	3.2
		"		64	2.9
		"		58	1.9
		"	35	38	1.5
		"	27	30	
		Bluehead Sucker		74	4.6
		"		100	11.6
		"		91	8.4

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/5/75 (Cont.)	28(2) (Cont.)	Flannelmouth Sucker	148	30.2
		"	113	14.0
		"	96	8.9
		"	97	8.8
		"	116	14.9
		"	96	7.9
		"	47	0.8
		"	36	0.4
		"	42	0.6
		"	43	0.6
		"	41	0.5
		"	45	0.7
		"	39	0.5
		"	40	0.5
		"	37	0.5
		"	38	0.5
		"	33	0.3
		"	34	0.3
		"	36	0.4
		"	34	0.3
		"	35	0.3
		Unidentifiable Cyprinid	28	-
	29(1)	Roundtail Chub	308	197
		"	314	226
		Speckled Dace	87	6.8
		"	90	7.7
		"	61	2.2
		"	63	2.5
		"	79	4.4
		"	82	5.1
		"	74	4.2
		"	87	6.8
		"	85	5.9
		"	75	4.7
		"	70	3.8
		"	65	2.9
		"	83	5.8
		"	92	5.2
		"	73	4.0
		"	70	3.3
		"	73	4.0
		"	62	2.4
		"	36	0.4
		"	35	0.3
		"	74	4.2
		"	85	5.5

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/5/75	29(1)	Speckled Dace	86	6.3
(Cont.)	(Cont.)	"	76	4.6
		"	79	5.3
		"	63	2.3
		"	67	2.9
		"	84	6.2
		"	82	4.7
		"	67	3.0
		"	92	8.0
		"	80	5.6
		"	87	6.5
		"	81	5.5
		"	92	9.0
		"	51	1.4
		"	74	3.8
		"	65	3.0
		"	83	5.3
		"	65	2.9
		"	65	3.2
		Mottled Sculpin	73	5.2
		"	72	4.7
		"	80	6.5
		"	87	9.4
		"	84	8.2
		"	88	9.0
		"	72	5.0
		"	83	7.8
		"	78	7.4
		"	76	6.1
		"	79	6.8
		"	77	6.2
		"	96	11.6
		"	102	14.4
		"	42	1.0
		"	86	8.5
		"	81	7.6
		"	82	8.3
		"	77	5.9
		"	86	9.4
		Red Shiner	49	1.1
		Fathead Minnow	61	2.7
		"	56	2.0
		"	55	1.8
		"	38	0.6
		Mountain Whitefish	118	15.0
		Bluehead Sucker	86	6.1

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/5/75 (Cont.)	29(1) (Cont.)	Bluehead Sucker	96	8.5
		"	87	6.5
		"	33	0.3
		Flannelmouth Sucker	423	656
		"	349	335
		"	97	7.9
		"	92	6.4
		"	41	0.5
		"	33	0.3
		"	36	0.4
		"	32	0.2
	29(2)	"	436	685
		"	104	10.6
		Red Shiner	51	1.4
		"	49	1.1
		Speckled Dace	84	5.9
		"	84	5.8
		"	89	6.7
		"	62	2.3
		"	70	3.4
		"	86	5.1
		"	51	1.5
		"	80	5.1
		"	98	9.8
		"	66	2.9
		"	72	3.7
		"	77	4.5
		"	73	3.8
		"	80	4.7
		"	67	3.4
		"	64	2.8
		"	74	3.9
		"	104	11.7
		"	72	4.0
		"	61	2.7
		"	59	2.0
		"	80	4.4
		"	86	5.8
		"	78	4.1
		"	65	2.6
		"	65	2.8
		"	65	2.8
		"	63	2.6
		"	35	0.4
		Mottled Sculpin	87	9.1
		"	84	8.6

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/5/75 (Cont.)	29(2) (Cont.)	Mottled Sculpin	77	5.7
		"	76	6.0
		"	87	9.3
		"	73	5.9
		"	73	4.6
		"	82	8.0
		"	78	5.6
		"	80	7.0
		"	38	0.7
		"	35	0.5
		"	40	0.8
		"	32	0.4
		Bluehead Sucker	81	4.8
		"	88	6.7
9/8/75	33(1)	Flannelmouth Sucker	74	3.8
		Mottled Sculpin	90	11.7
	33(2)	Speckled Dace	67	3.1
		"	34	0.4
		"	32	0.3
	34(1)	Flannelmouth Sucker	105	10.3
		"	96	8.2
		"	322	262
		"	410	529
		Speckled Dace	91	6.9
		"	65	3.0
		"	62	2.7
		"	86	6.5
		"	84	6.6
		"	92	7.3
		"	75	4.0
		"	89	7.3
		"	78	5.0
		"	69	3.4
		"	83	6.1
		"	88	7.4
		"	67	3.0
		"	74	4.2
		"	69	3.4
		"	82	6.0
		"	70	3.4
		"	69	3.3
		"	60	2.3
		"	33	0.4
		Mottled Sculpin	87	8.9
		"	80	7.1

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/8/75 (Cont.)	34(1) (Cont.)	Mottled Sculpin	75	5.2
	34(2)	"	76	6.0
		Speckled Dace	86	6.7
		"	74	4.2
		"	72	3.9
		"	72	3.7
		"	79	5.2
		"	77	4.8
		"	71	3.4
		"	73	4.4
		"	83	5.1
		"	69	3.6
		"	90	7.3
		"	68	3.7
		"	70	3.5
		"	72	3.9
		"	61	2.3
		"	61	2.3
	35(1)	Bluehead Sucker	95	8.7
		Speckled Dace	86	6.3
		Mottled Sculpin	74	4.8
		"	83	7.5
		"	74	5.4
		"	104	13.8
		"	79	6.9
		"	82	7.2
		"	94	11.3
		"	91	9.0
		"	76	6.2
		"	82	7.7
		"	74	5.8
		"	75	5.7
	35(2)	Speckled Dace	67	2.8
		"	85	6.8
		"	88	7.0
		"	77	5.0
		"	70	3.4
		"	67	3.6
		"	83	5.7
		"	77	5.0
		Mottled Sculpin	35	0.5
		"	43	1.0
		"	37	0.6
		"	36	0.5
		"	94	10.7

APPENDIX D-17-8 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)
9/8/75 (Cont.)	35(2) (Cont.)	Mottled Sculpin	85	7.7
		"	97	11.3
		"	85	7.5
		"	76	5.2
		"	90	9.8
		"	75	5.6
9/9/75	23(1)	Flannelmouth Sucker	346	316
		"	449	767
		"	382	448
		"	355	338
		"	412	577
		"	312	243
		"	325	276
		"	285	187
		"	283	196
		"	287	185
		Roundtail Chub	307	207
	23(2)	Flannelmouth Sucker	348	362
		"	424	682
		"	406	563
		"	348	357
		"	340	327
		"	311	251
		"	421	575
		Carp	467	1399
9/2/75	21(1)	Flannelmouth Sucker	45	0.8
		"	39	0.5
		"	42	0.6
	21(2)	Flannelmouth Sucker	38	0.5
	22(1)	Bluehead Sucker	21	0.1
		"	33	0.3
		Flannelmouth Sucker	35	0.4
		Speckled Dace	27	0.2

APPENDIX D-17-9

LIST OF FISH SPECIES AND NUMBERS CAPTURED, WHITE RIVER AND LOWER YELLOW CREEK RBOSP AQUATIC BASELINE STUDIES AUSUST - SEPTEMBER 1975

RBOSP PROGRESS REPO

APPENDIX D-17-9

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Common Name	Scientific Name	Number Captured
Brown trout	*Salmo trutta*	1
Mountain whitefish	*Prosopium williamsoni*	8
Roundtail chub	*Gila robusta*	5
Speckled dace	*Rhinichthys osculus*	408
Fathead minnow	*Pimephales promelas*	155
Red shiner	*Notropis lutrensis*	10
Carp	*Cyprinus carpio*	24
Flannelmouth sucker	*Catostomus latipinnis*	162
Bluehead sucker	*Catostomus discobolus*	66
Mountain sucker	*Catostomus platyrhynchus*	2
Channel catfish	*Ictalurus punctatus*	1
Black bullhead	*Ictalurus melas*	
Mottled sculpin	*Cottus bairdi*	131
Flannelmouth X Bluehead	*Catostomus latipinnis* X *C. discobolus*	2

RBOSP PROGRESS REPORT

APPENDIX D-17-10

SUMMARY OF STOMACH CONTENT ANALYSES FOR 81 MOTTLED SCULPIN
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

RBOSP PROGRESS REPORT

APPENDIX D-17-10

SUMMARY OF STOMACH CONTENT ANALYSIS FOR 81 MOTTLED SCULPIN RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Crustacea	2	<1
Oligochaeta	-	-
Plecoptera	-	-
Ephemeroptera	35	5
Odonata	-	-
Trichoptera	78	50
Hydropsychidae	74	47
other	9	2
Lepidoptera	6	<1
Coleoptera	2	<1
Diptera		
Chironomidae	75	42
Simuliidae	7	<1
other	2	<1
Hemiptera		
Corixidae	2	<1
Fish	12	-

---

[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % Of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

APPENDIX D-17-11

SUMMARY OF STOMACH CONTENT ANALYSES FOR 114 FLANNELMOUTH SUCKERS
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-17-11

SUMMARY OF STOMACH CONTENT ANALYSES FOR 114 FLANNELMOUTH SUCKERS RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Nematoda	-	-
Crustacea	8	1
Acari	4	<1
Plecoptera	<1	<1
Ephemeroptera	26	5
Odonata	-	-
Trichoptera	-	-
Hydropsychidae	33	8
Hydroptilidae	8	<1
others	4	<1
Lepidoptera	<1	<1
Coleoptera	-	-
Diptera		
Chironomidae	95	84
Simuliidae	13	<1
others	4	<1
Pelecypoda	<1	<1
adult (terrestrial) insects	4	<1
algae	6	-
plant material	6	-

---

[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

RBOSP PROGRESS REPORT

APPENDIX D-17-12

SUMMARY OF STOMACH CONTENT ANALYSES FOR FOUR ROUNDTAIL CHUBS
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-17-12

SUMMARY OF STOMACH CONTENT ANALYSES FOF FOUR ROUNDTAIL CHUBS RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

	% Frequency of Occurrence
Acari	-
Ephemeroptera	
Baetidae	-
Diptera	
Chironomidae	-
Tabanidae	-
Trichoptera	
Hydropsychidae	25
terrestrial insects	75
fish	-
algae	25
plant material	75

RBOSP PROGRESS REPORT

APPENDIX D-17-13

SUMMARY OF STOMACH CONTENT ANALYSES FOR SEVEN CARP RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

RBOSP PROGRESS REPORT

APPENDIX D-17-13

SUMMARY OF STOMACH CONTENT ANALYSES FOR SEVEN CARP
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Diptera		
Chironomidae	100	99
Odonata		
Gomphidae	14	<1
Ephemeroptera	14	<1
plant material	14	-

---

[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

RBOSP PROGRESS REPORT

APPENDIX D-17-14

SUMMARY OF STOMACH CONTENT ANALYSES FOR ONE BROWN TROUT RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

RBOSP PROGRESS

APPENDIX D-17-14

SUMMARY OF STOMACH CONTENT ANALYSES FOR ONE BROWN TROUT RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Diptera		
Chironomidae	100	67
Trichoptera		
Hydropsychidae	100	7
Odonata		
Coenagrionidae	100	7
terrestrial insects	100	20

---

[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

RBOSP PROGRESS REPORT

APPENDIX D-17-15

SUMMARY OF STOMACH CONTENT ANALYSES FOR EIGHT MOUNTAIN WHITEFISH RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

APPENDIX D-17-15

SUMMARY OF STOMACH CONTENT ANALYSES FOR EIGHT MOUNTAIN WHITEFISH RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Nematoda	13	<1
Acari	-	-
Ephemeroptera	100	15
Trichoptera		
Hydropsychidae	100	20
Hydroptilidae	50	2
Diptera		
Chironomidae	100	61
Ceratopogonidae	-	-
Simuliidae	13	<1
Plecoptera		
Isoperla	-	-
Lepidoptera		
Pyralidae	38	<1
terrestrial insects	13	<1

---

[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

APPENDIX D-17-16

SUMMARY OF STOMACH CONTENT ANALYSES FOR ONE BLUEHEAD SUCKER
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-17-16

SUMMARY OF STOMACH CONTENT ANALYSES FOR ONE BLUEHEAD SUCKER RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975

Food Item	% Frequency of Occurrence[1]	% of Total Food Items[2]
Ephemeroptera		
Baetidae	-	-
Diptera		
Chironomidae	100	100
Simulidae	-	-
Trichoptera		
Hydroptilidae	-	-
Lepidoptera		
Pyralidae	-	-
terrestrial insects	-	-
algae	-	-
plant material	-	-

---

[1] % Frequency of Occurrence = $\frac{\text{\# stomach containing food items}}{\text{total \# stomachs examined}}$

[2] % of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

APPENDIX D-17-17

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975

APPENDIX D-17-17

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUIDES
AUGUST - SEPTEMBER 1975

Species	Length (mm)	Weight (gm)	#	Food Items
Station 21, Replicate 1, 9/2/75				
Flannelmouth Sucker	45	0.8	30	Chironomidae
			1	Chironomidae pupa
			1	*Hydropsyche*
			1	Simuliidae
Flannelmouth Sucker	42	0.6	3	Daphnia
Flannelmouth Sucker	39	0.5	25	Chironomidae
			1	Zooplankton-Crustacean
Station 21, Replicate 2, 9/2/75				
Flannelmouth Sucker	38	0.5	15	Chironomidae
			1	Chironomidae pupa
			1	Simuliidae
Station 30, Replicate 1, 9/3/75				
Flannelmouth Sucker	400	536	356	Chironomidae
			4	Chironomidae pupae
			1	Cicadellidae
			25	Hydropsychidae
			124	*Hydropsyche*
			1	*Cheumatopsyche*
			2	*Brachycentrus* case
			5	Baetidae
			3	*Baetis*
			1	Heptageniidae
			3	Simuliidae - larvae
			1	Simulidae pupa
			1	*Atherix varigata*
			1	*Limnophila*
Flannelmouth Sucker	330	284	91	Chironomidae
			2	Simuliidae
			3	Baetidae
			2	*Hydropsyche*
			1	Internal Parasite
				UDM
				Debris

APPENDIX D-17-17 (Continued)

Station 30, Replicate 1, 9/3/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	33	0.4	1	Dytiscidae
			2	Chironomidae
Mottled Sculpin	113	20.7		UDM
				Fish reamins

Station 30, Replicate 2, 9/3/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	79	6.8	3	Hydropsychidae
Mottled Sculpin	83	7.9	14	Hydropsychidae
				UDM
Mottled Sculpin	82	7.4	5	Hydropsychidae
			5	Chironomidae

Station 31, Replicate 1, 9/3/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	77	6.3	8	Hydropsychidae
			2	Chironomidae
Mottled Sculpin	79	7.1	5	Chironomidae
			1	Internal Parasite
			6	Hydropsychidae

Station 32, Replicate 1, 9/3/75

Species	Length (mm)	Weight (gm)	#	Food Items
Bluehead Sucker	89	7.2		UDM - empty
Bluehead Sucker	91	7.2		UDM - empty
Bluehead Sucker	82	6.4		UDM - empty
Bluehead Sucker	77	4.3		UDM - empty
Bluehead Sucker	87	5.5	4	Chironomidae
Mottled Sculpin	79	6.8	24	Hydropsychidae
			1	Simuliidae larva
			13	Chironomidae
Mottled Sculpin	81	6.7	13	Hydropsychidae
			2	Chironomidae

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
Station 32, Replicate 1, 9/3/75				
Mottled Sculpin	77	6.2	25	Hydropsychidae
			3	Hydroptilidae
			6	Chironomidae
			1	Chironomidae pupa
Mottled Sculpin	71	4.7	19	Trichoptera (Hydroptilidae)
				Chironomidae
Mottled Sculpin	30	0.3	2	Chironomidae
Station 32, Replicate 2, 9/3/75				
Mottled Sculpin	86	8.8	25	Hydropsychidae
			1	*Baetis*
			1	Hydroptilidae
			9	Chironomidae
Mottled Sculpin	65	4.0	5	Chironomidae
			14	Hydropsychidae
			2	Ephemeroptera
			1	Simuliidae
Station 36, Replicate 1, 9/3/75				
Mottled Sculpin	92	12.5	3	Trichoptera
Station 24, Replicate 1, 9/4/75				
Mottled Sculpin	79	6.5	10	Chironomidae
			6	Hydropsychidae
Mottled Sculpin	79	6.5	5	Chironomidae
			15	Hydrosychidae
			2	Ephemeroptera
Mottled Sculpin	31	0.4	15	Chironomidae
			2	Hydropsychidae
Station 26, Replicate 1, 9/4/75				
Bluhead Sucker	81	5.1		UDM
Mottled Sculpin	87	10.1	1	Chironomidae
Mottled Sculpin	100	14.8	5	Chironomidae

APPENDIX D-17-17 (Continued)

Station 26, Replicate 1, 9/4/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	35	0.5	1	Chironomidae
			1	Hydropsychidae
Mottled Sculpin	89	9.6	5	Chironomidae
			2	Hydroptilidae
			17	Hydropsychidae
			1	Crustacean - Ostracod
Mottled Sculpin	77	6.9	18	Hydropsychidae
			1	Ephemeroptera
Mottled Sculpin	77	5.7	2	Hydropsychidae
			1	Hydroptilidae
Mottled Sculpin	40	0.7	1	*Hydropsyche*
			1	Ephemeroptera
Mottled Sculpin	77	6.2	8	Hydropsychidae
			1	Chironomidae
Mottled Sculpin	96	12.2	14	Hydropsychidae
Mottled Sculpin	102	16.3	10	Hydropsychidae
Mottled Sculpin	76	6.2	11	Hydropsychidae
			1	*Atherix*
Station 26, Replicate 2, 9/4/75				
Mottled Sculpin	97	13.1	22	Hydropsychidae
			1	Hydroptilidae
			1	Chironomidae pupa
			5	Chironomidae
			10	Internal Parasites
Mottled Sculpin	77	6.8	7	Hydropsychidae
			5	Internal Parasites
Mottled Sculpin	67	4.1	6	Hydropsychidae
			1	Baetidae
			5	Chironomidae
Mottled Sculpin	79	7.2		Insect Parts
Mottled Sculpin	90	10.0		Insect Parts

APPENDIX D-17-17 (Continued)

Station 26, Replicate 2, 9/4/75

Species	Length (mm)	Weight (gm)	#	Food Items
Carp	69	5.7	1	Ephemeroptera
			5	Chironomidae

Station 27, Replicate 2, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Carp	451	1419	408	Chironomidae
			3	Chironomidae pupae
			1	*Ophiogomphus* (Labrium & abdomen)
				UDM - unidentified eggs not fish
				Debris
Carp	488	1535	350	Chironomidae
			1	Pupa
				UDM
				Sand, Debris
				Plant Material
			1/2	Fish Scale
Roundtail Chub	272	181	1	Hydropsychidae
			1	Formycidae + Fragments
				Sand and Debris
				Skeleton - Possible fish
				UDM
				Plant Material
Flannelmouth Sucker	209	77	43	Chironomidae
			5	*Hydropsyche*
			2	*Hydroptila*
			3	*Hydroptila* pupae
			1	Simuliidae
			1	Heptageniidae
			1	Seed Coat
				Pieces of metal - iron strip -pieces of iron
				UDM - Debris - Sand
Flannelmouth Sucker	280	184	71	Chironomidae
			1	Chironomidae pupa
			1	Acari
			1	*Baetis*
			1	*Traverella*
			1	*Pelecypoda*
				Algae (filamentous)
			1	*Caenis*
				Seeds - Terr.
				UDM, Sand

APPENDIX D-17-17 (Continued)

Station 27. Replicate , 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	242	122	25	Chironomidae
			4	Chironomidae pupae
			1	Simuliidae
			3	*Hydropsyche*
				Algae (Filamentous)
				UDM, Sand
Flannelmouth Sucker	189	69	152	Chironomidae
			7	Chironomidae pupae
			1	*Hydroptila*
			1	*Hydropsyche*
			1	*Choroterpes*
			2	Pyralidae
			1	Simuliidae
				Simuliidae pupae
			1	Baetidae
			4	*Agraylea*
				UDM, Sand
Flannelmouth Sucker	302	210	25	Chironomidae
				Algae, Sand
Flannelmouth Sucker	284	205		Internal Parasites
			152	Chironomidae
			8	Chironomidae pupae
			1	*Hydropsyche*
			1	Hydroptila, pupa
			1	*Tricorythodes*
			1	*Ephemerella*
			1	Plant Material
				UDM, Debris
Flannelmouth Sucker	302	210	151	Chironomidae
			8	Pupae
				Internal Parasite
				UDM, Sand, Debris

Station 27, Replicate Q, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	41	0.5	1	*Hydropsyche*
			8	Chironomidae
Flannelmouth Sucker	48	0.9	13	Chironomidae
			2	Chironomidae pupae

APPENDIX D-17-17 (Continued)

Station 27, Replicate Q. 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	43	0.6	40	Chironomidae
Flannelmouth Sucker	41	0.5		UDM
Flannelmouth Sucker	42	0.5		Empty
Station 27, Replicate 1, 9/5/75				
Flannelmouth Sucker	107	13.0	1	Ephemeroptera
			1	Internal Parasite
				UDM
Flannelmouth Sucker	43	0.6	50	Chironomidae
			2	Chironomidae pupae
Mottled Sculpin	82	8.0	5	Chironomidae
			1	Fish - unidentified
Mottled Sculpin	87	9.7	1	Baetidae
			1	Chironomidae pupa
				Insect parts
Mottled Sculpin	84	8.0	35	Chironomidae
			14	Hydropsychidae
			3	Baetidae (Baetis)
			1	Pyralidae
Mottled Sculpin	84	8.0		Trichoptera parts (4 heads)
Mottled Sculpin	95	13.0	22	Chironomidae
			17	Hydropsychidae
Mottled Sculpin	73	5.0	10	Chironomidae
			1	Hydropsychidae
Mottled Sculpin	138	25.8	21	Chironomidae
			8	Chironomidae pupae
			11	Hydropysche
			2	Ephemeroptera
			2	Simuliidae
			1	Hydroptildae pupa

APPNEDIX D-17-17 (Continued)

Station 27, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	214	89.5	10	Chironomidae
			2	Chironomidae pupae
			1	Hydropsyche
			1	Hydroptildae pupa
			1	Baetis
Flannelmouth Sucker	159	35.7	2	Hydropsyche
			22	Chironomidae
Flannelmouth Sucker	175	53.4	2	Hydropsyche
			5	Chironomidae
Flannelmouth Sucker	193	65.2	1	Ephemeroptera
			1	Ephemeroptera adult
			15	Chironomidae
			4	Chironomidae pupae
			9	Hydropsyche
				Insect parts
Flannelmouth Sucker	207	85.3	50	Chironomidae
			4	Chironomidae pupae
			1	Diptera - adult
				Insect parts
				Algae, fliamentous
				Sand
Flannelmouth Sucker	173	45.9		UDM
Flannelmouth Sucker	158	34.6	90	Chironomidae
			11	Chironomidae pupae
Flannelmouth Sucker	183	56.5		UDM
				Algae - filamentous

Station 27, Replicate 2. 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	75	6.2	27	Chironomidae
			27	Hydropsychidae
Mottled Sculpin	35	0.5	8	Chironomidae

APPENDIX D-17-17 (Continued)

Station 27, Replicate 2, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Carp	75	7.5		Empty - UDM
Carp	66	4.6		Empty - UDM
Flannelmouth Sucker	187	64.5	24	Chironomidae
			4	Chironomidae pupae
				Sand
Flannelmouth Sucker	100	10.1	22	Chironomidae
Flannelmouth Sucker	109	13.9	1	Hydropsychidae
			1	Ephemeroptera
			2	Chironomidae
			2	Chironomidae pupae

Station 28, Replicate 1 , 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	473	901	103	Chironomidae
			13	Chironomidae adults
			1	Heptageniidae - head
				Seed
				Rock, Sand
				Debris
Flannelmouth Sucker	444	723	5	Hydropsyche
			54	Chironomidae
			2	Tricorythodes
			1	Hydropsychidae
			7	Heptageniidae
			20	Insect Cases
				Sand, Rocks
				Seed, Terr.
				UDM
Flannelmouth Sucker	460	804	5	Chironomidae
			1	Chironomidae pupae
				Red Seed
				Sand, Debris, UDM
Flannelmouth Sucker	34	0.3	1	Chironomidae
			2	Zooplankton

APPENDIX D-17-17 (Continued)

Station 28, Replicate , 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	148	30.2	1	Hydropsyche skin
				UDM
Flannelmouth Sucker	38	0.5	1	Zooplankton, *Daphnia*
			5	Chironomidae
Flannelmouth Sucker	96	8.9	22	Chironomidae
			2	Chironomidae pupae
			2	*Hydropsyche*
			1	Simuliidae
			1	Diptera
Flannelmouth Sucker	97	8.8	5	Chironomidae
				UDM
Flannelmouth Sucker	33	0.3		UDM
Flannelmouth Sucker	35	0.3		UDM

Station 28, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Carp	85	10.5	15	Chironomidae
Mottled Sculpin	82	7.5	2	Hydropsychidae
			1	Baetidae
			5	Chironomidae
			1	Chironomida pupae
			1	Fish
Mottled Sculpin	85	8.8	1	*Baetis*
			1	Fish
			1	Chironomidae
Mottled Sculpin	93	10.1	3	Baetidae
			1	Hydropsyche
			1	Simuliidae larva
			2	*Tricorythodes*
			7	Chironomidae
			2	*Choroterpes*
Mottled Sculpin	87	8.9	9	Baetidae

APPENDIX D-17-17 (Continued)

Station 28, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	84	9.0	1	Tricorythodes
			2	Corixidae ♂ & ♀
			3	Chironomidae
			2	Fish < 20 mm in length
Carp	70	5.4	5	Chironomidae
			1	Chironomidae pupae
Carp	75	7.0	2	Chironomidae
				Unidentifiable insect parts
Carp	68	5.3	4	Chironomidae
Bluehead Sucker	89	7.5	1	Internal Parasite
				UDM
Bluehead Sucker	76	4.2		UDM
Bluehead Sucker	71	3.5		UDM
Bluehead Sucker	94	8.6		UDM, Sand
Bluehead Sucker	91	8.2		UDM
Flannelmouth Sucker	92	6.7	20	Chironomidae
			3	Chironomidae pupae
			1	Acari
				UDM, Sand
Flannelmouth Sucker	96	7.2	10	Chironomidae
			2	Chironomidae pupae
			1	Hydropsychidae
				Sand, UDM
Flannelmouth Sucker	96	7.2	11	Chironomidae
Flannelmouth Sucker	93	6.5	7	Chironomidae
			1	Chironomidae pupae
				UDM, Sand, Debris
Flannelmouth Sucker	95	7.9	15	Chironomidae
			2	Chironomidae Pupae

APPENDIX D-17-17 (Continued)

Station 28, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	110	11.1	35	Chironomidae
				Insect parts
Flannelmouth Sucker	105	10.5	11	Chironomidae
			6	Chironomidae pupae
			1	Hydropsychidae
Flannelmouth Sucker	55	1.4	2	Chironomidae
			1	Chironomidae pupae
Flannelmouth Sucker	110	11.1	1	Chironomidae
			1	Chironomidae pupae
				UDM
Flannelmouth Sucker	185	50.7	2	Chironomidae
			2	Internal Parasites
Flannelmouth Sucker	45	7.9	1	Internal Parasite
				Sand
Flannelmouth Sucker	90	6.4	17	Chironomidae
			2	Hydropsychidae
			1	Ephemeroptera
Flannelmouth Sucker	86	6.0	21	Hydropsychidae
			6	Hydropsychidae pupae
Flannelmouth Sucker	97	--	2	Hydropsychidae
			23	Chironomidae
				Sand
				Ostracoda
				UDM
Flannelmouth Sucker	126	17.1	6	Chironomidae
			2	Chironomidae pupae
			1	Ephemeroptera
				Trichoptera parts
				UDM
Flannelmouth Sucker	97	8.1	15	Chironomidae
			2	Chironomidae pupae
Flannelmouth Sucker	131	20.4	65	Chironomidae
			3	Chironomidae pupae
			2	Hydropsychidae

APPENDIX D-17-17 (Continued)

Station 28, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	109	10.7	5 2 1	Chironomidae Chironomidae pupae Hydropsychidae
Flannelmouth Sucker	170	41.8	1 1	Chironomidae - pupa Hydropsychidae part, UDM
Flannelmouth Sucker	93	6.5	22	Chironomidae UDM
Flannelmouth Sucker	35	0.3	20 1	Chironomidae Baetidae
Flannelmouth Sucker	110	12.1	1	Chironomidae UDM
Flannelmouth Sucker	36	0.4	50	Chironomidae
Flannelmouth Sucker	32	0.2	3	Chironomidae
Flannelmouth Sucker	92	6.3	5	Chironomidae UDM
Mottled Sculpin	66	3.6	1 2	Fish Chironomidae
Flannelmouth Sucker	113	14.2	3	Chironomidae UDM
Flannelmouth Sucker	92	6.4	40	Chironomidae
Flannelmouth Sucker	95	7.5	5	Chironomidae UDM
Flannelmouth Sucker	103	9.0		UDM
Flannelmouth Sucker	148	29.7	2-3	Parasites Egg? UDM

APPENDIX I D-17-17 (Continued)

Station 28, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	98	7.8		UDM
Flannelmouth Sucker	96	7.6		UDM
Flannelmouth Sucker	81	5.4		UDM
Flannelmouth Sucker	94	6.7		UDM
Flannelmouth Sucker	100	9.1		UDM
Station 28, Replicate 2, 9/5/75				
Bluehead Sucker	91	8.4	1	Nematoda (int. parasite) UDM
Bluehead Sucker	100	11.6		UDM
Bluehead Sucker	74	4.6		UDM
Flannelmouth Sucker	40	0.5	1 1 5	*Daphnia* Fish Scale Chironomidae
Flannelmouth Sucker	42	0.6	10 2	Chironomidae Chironomidae pupae
Flannelmouth Sucker	36	0.4	11 1 2 1	Chironomidae Chironomidae pupa Ostracoda Zooplankton - *Cyclops*
Flannelmouth Sucker	34	0.3	1 3	Chironomidae Chironomidae pupae
Flannelmouth Sucker	36	0.4	5 43	Chironomidae Zooplankton
Flannelmouth Sucker	37	0.5	20 1	Chironomidae Chironomidae pupae

APPENDIX D-17-17 (Continued)

Station 28, Replicate 2, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	39	0.5	1	Zooplankton - *Daphnia*
				UDM
Flannelmouth Sucker	96	7.9	25	Chironomidae
			1	Chironomidae pupa
Flannelmouth Sucker	116	14.9	75	Chironomidae
			4	Chironomidae pupa
			1	*Hydropsyche*
				Insect Parts
Flannelmouth Sucker	43	0.6	5	Chironomidae
				UDM
Flannelmouth Sucker	47	0.8		UDM
			10	Chironomidae
Flannelmouth Sucker	45	0.7		UDM
Flannelmouth Sucker	113	14.0		UDM
Flannelmouth Sucker	41	0.5		UDM

Station 29, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Roundtail Chub	308	197		Wings from large insect
				Shell (snail)
				UDM
			1	Internal Parasite - Nematoda
				Algae - *Spirogyra*
				Plant Material
				Sand
Flannelmouth Sucker	349	335	5	Chironomidae
				Algae - filamentous
				UDM
Flannelmouth Sucker	436	685	104	Chironomidae
			3	Chironomidae pupae
				Hydropsychidae
			31	*Hydropsyche*
			1	*Cheumatopsyche*
			1	*Hydroptila*

APPENDIX D-17-17 (Continued)

Station 29, Replicate , 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth, Cont.			22	*Baetis*
			5	Heptagenidae
			2	Simuliidae
				UDM, Debris, Sand
				Seed
Flannelmouth Sucker	433	656	10	Chironomidae
			1	*Baetis*
				Plant Material
				UDM, Debris, Sand

Station 29, Replicate Q, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	32	0.2	5	Chironomidae
Mottled Sculpin	36	0.6	5	Chironomidae
			4	Hydropsychidae
			1	Baitidae
Mottled Sculpin	103	14.7	20	Chironomidae
			39	Hydropsychidae
Mottled Sculpin	75	6.2	5	Chironomidae
			13	Hydropsychidae
Mottled Sculpin	41	0.8	10	Chironomidae
Mountain Whitefish	111	12.8	38	Chironomidae
			4	Ephemeroptera
			17	Hydropsychidae
			1	Hydroptilidae
Mountain Whitefish	129	19.7	16	Chironomidae
			5	Ephemeroptera
			5	Hydrosychidae
Mountain Whitefish	121	17.5	77	Chironomidae
			2	Chironomidae pupae
			4	Hydroptilidae
			11	Ephemeroptera
			8	Hydropsychidae
			1	Pyralidae
			1	Simuliidae

APPENDIX D-17-17 (Continued)

Station 29, Replicate Q, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mountain Whitefish	121	18.0	1	Internal Parasites (nematoda)
			85	Chironomidae
			6	Chironomidae pupae
			28	Ephemeroptera
Mountain Whitefish	124	17.2	37	Chironomidae
			1	Chironomidae pupa
			15	Hydropsychidae
			1	Pyralidae
			1	Hydroptilidae
			14	Ephemeroptera

Station 29, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mountain Whitefish	118	15.0	28	Chironomidae
			10	Chironomidae pupae
			16	Hydropsychidae
			7	Ephemeroptera
			5	Hydroptilidae
			1	Pyralidae
			2	Terrestrial insects
Brown Trout	97	9.9	10	Chironomidae
			1	Internal Parasite
			1	Coenagrionidae
			1	Hydropsychidae
			3	Formicidae (Ants)
Flannelmouth Sucker	97	7.9	5	Chironomidae
			1	Chironomidae pupa
Flannelmouth Sucker	92	6.4	3	Chironomidae
				UDM
Flannelmouth Sucker	41	0.5	2	Chironomidae
				UDM
Flannelmouth Sucker	33	0.3	2	Chironomidae
Flannelmouth Sucker	36	0.4	10	Chironomidae

APPENDIX ID-17-17 (Continued)

Station 29, Replicate 1, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	96	11.0	21	Chironomidae
			6	Ephemeroptera
			41	Hydropsychidae
Mottled Sculpin	42	1.0	5	Chironomidae
			3	Hydropsychidae
			1	Ephemeroptera
Mottled Sculpin	102	14.4	15	Chironomidae
			8	Hydropsychidae
			3	Ephemeroptera
			1	Hydroptilidae

Station 29, Replicate 2, 9/5/75

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	38	0.7	3	Hydropsychidae
			2	Ephemeroptera
			5	Chironomidae
Mottled Sculpin	35	0.5	4	Chironomidae
			1	Ephemeroptera
			1	Hydropsychidae
Mottled Sculpin	40	0.8	9	Chironomidae
			3	Hydropsychidae
			2	Ephemeroptera
			1	Simuliidae pupa

Station 33, Replicate Q, 9/8/75

Species	Length (mm)	Weight (gm)	#	Food Items
Bluehead Sucker	103	11.5		Sand, UDM
Flannelmouth Sucker	333	272	220	Chironomidae
			25	Chironomidae pupae
			1	Internal Parasite
				UDM, Sand
Flannelmouth Sucker	127	20.0	18	Chironomidae
			1	Hydropsychidae
Flannelmouth Sucker	122	17.7	55	Chironomidae
Flannelmouth Sucker	104	9.8	2	Chironomidae

APPENDIX D-17-17 (Continued)

Station 33, Replicate , 9/8/75

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	124	18.3		UDM
Station 33, Replicate 1, 9/8/75				
Mottled Sculpin	90	11.7	15	Chironomidae
			1	Chironomidae pupa
			4	Corixidae
			2	Coleoptera
			1	Fish (Speckled Dace)
Flannelmouth Sucker	74	3.8	6	Chironomidae
			1	Simuliidae
Flannelmouth Sucker	111	13.2	9	Chironomidae
			3	Chironomidae pupae
Station 34, Replicate 1, 9/8/75				
Flannelmouth Sucker	322	262	5	Chironomidae
			1	Ephemeroptera
				UDM - most of sample
Flannelmouth Sucker	410	529		UDM - entire sample
Flannelmouth Sucker	96	8.2	16	Chironomidae
			4	Chironomidae pupae
Mottled Sculpin	75	5.2	8	Hydropsychidae
Mottled Sculpin	87	8.9	4	Chironomidae
			1	Hydropsychidae
Mottled Sculpin	80	7.1	9	Chironomidae
			2	Hydropsychidae
				Int. Parasite
Flannelmouth Sucker	105	10.3	10	Chironomidae
Station 35, Replicate 1, 9/8/75				
Bluehead Sucker	95	8.7	4	Chironomidae
				UDM

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	74	5.4	5	Chironomidae
			6	Hydropsychidae
			3	Simuliidae
			2	Ephemeroptera
Mottled Sculpin	83	7.5	14	Hydropsychidae
			1	Chironomidae
Mottled Sculpin	74	4.8	4	Hydropsychidae
	Station 35, Replicate 2, 9/8/75			
Mottled Sculpin	94	10.7	10	Hydropsychidae
Mottled Sculpin	85	7.7	9	Hydropsychidae
			1	Chironomidae
Mottled Sculpin	97	11.3	11	Hycropsychidae
Mottled Sculpin	85	7.5	13	Hydropsychidae
			3	Pyralidae
			8	Chironomidae
Mottled Sculpin	76	5.2	7	Chironomidae
			6	Hydropsychidae
			1	Pyralidae
			3	Simuliidae
Mottled Sculpin	90	9.8	2	Hydropsychidae
			1	Ephemeroptera
Mottled Sculpin	75	5.6	4	Hydropsychidae
Mottled Sculpin	35	0.5	10	Chironomidae
				Insect Parts
Mottled Sculpin	43	1.0	4	Chironomidae
			1	Ephemeroptera
			1	Pyralidae
Mottled Sculpin	37	0.6	1	Ostracoda
			12	Chironomidae

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	36	0.6	7	Chironomidae
			1	Ephemeroptera
			1	Hydropsychidae
Station 23, Replicates 1 & 2, 9/9/75				
Roundtail Chub (¼ of Sample)	307	207	2	Formicidae-fragments
			1	Lepidoptera-head
			1	Saldidae-wing
			7	Chironomidae
				UDM
				Plant Material (seed coat)
Flannelmouth Sucker (¼ of Sample)	325	276	20	Chironomidae
			1	Ephemeroptera-skin
				UDM
Flannelmouth Sucker (¼ Sample)	382	448		Chironomidae
			1	*Tricorythodes*
			1	Hydropsychidae-fragment
				Algae-filamentous
				UDM
Flannelmouth Sucker (½ Sample)	311	251	15	Chironomidae
			2	Chironomidae pupae
			1	Homoptera (Cicadellidae)
				UDM
Flannelmouth Sucker	424	682	50	Chironomidae
			1	Chironomidae pupa
			2	*Tricorythodes*
			1	Heptageniidae
				UDM
Flannelmouth Sucker	283	196	1	Hydropsychidae
			2	Ephemeroptera
			489	Chironomidae
			18	Chironomidae pupae
			1	*Hydropsyche*
				Internal parasite

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker	412	577	75	Chironomidae
			3	Chironomidae pupae
			1	Chloroperlidae
				UDM
Flannelmouth Sucker	348	357	111	Chironomidae
			10	Hydropsyche
			1	Acari
			1	Agapetus
				Parasite
				Sand
				Algae-filamentous
				UDM
Flannelmouth Sucker (¼ of Sample)	449	767	16	Chironomidae
			1	Brachycercus
			5	Choroterpes
			1	Baetidae
			1	Heptageniidae
			1	Tricorythodes
			2	Ephemerella
			1	Simuliidae
			7	Hydropsyche
				Sand and UDM
Flannelmouth Sucker (¼ of Sample)	355	388	8	Chironomidae
			2	Tricorythodes
			1	Hydropsychidae
			12	Hydropsyche
			1	Baetidae
				UDM, Sand
Flannelmouth Sucker (¼ of Sample)	340	327	32	Chironomidae
			6	Chironomidae pupae
			12	Ephemerella
			4	Tricorythodes
			5	Hydropsyche
			1	Acari
			1	Agraylea
			1	Simuliidae-pupa
			1	Heptageniidae
Flannelmouth Sucker (¼ sample)	424	682	25	Chironomidae
				UDM, Sand

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
Flannelmouth Sucker (¼ sample)	346	316	20	Chironomidae
			1	Hydropsyche
			1	Simuliidae
			1	Int. Parasite
Flannelmouth Sucker (¼ sample)	312	243	16	Chironomidae
			3	*Ephemerella*
				UDM
Flannelmouth Sucker (¼ sample)	348	362	22	Chironomidae
			1	Chironomidae pupa
			1	Homoptera (Cicadellidae)
			2	Heptageniidae
			1	*Choroterpes*
			1	Leptoceridae
			22	*Hydropsyche*
				UDM
Flannelmouth Sucker (¼ sample)	287	185	31	Chironomidae
			2	Chironomidae pupae
			3	*Ephemerella*
			1	*Limophila*
			2	Baetidae
			1	Simuliidae
			1	Simuliidae pupa
				UDM
Flannelmouth Sucker (¼ sample)	285	187	30	Chironomidae
			1	Chironomidae pupa
			1	*Mayatrichia*
				UDM, Sand
Flannelmouth Sucker (¼ sample)	424	682	15	Chironomidae
			1	Chironomidae pupa
			1	*Agapetus*
			1	*Hydropsyche*
			1	Heptageniidae
			4	*Ephemerella*
			2	Baetidae
			1	Hydroptilidae
				Sand, UDM

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
		Station 31, Replicate 1, 9/9/75		
Mountain Whitefish	119	15.7	14	Chironomidae
			5	Ephemeroptera
			10	Hydropsychidae
			7	Ephemeroptera
			1	*Tricorythodes*
Mottled Sculpin	89	10.3	20	Chironomidae
			4	Hydropsychidae
			1	Coleoptera
			2	*Tricorythodes*
			3	Ephemeroptera
				Fish-flesh
Mottled Sculpin	86	8.6	5	Chironomidae
			5	Hydropsychidae
			1	Ephemeroptera
Flannelmouth Sucker	177	46.7		UDM
Flannelmouth Sucker	127	18.3		UDM
		Station 31, Replicate 2, 9/9/75		
Mottled Sculpin	85	9.6	1	Chironomidae
			11	Hydropchidae
Mottled Sculpin	89	9.1	20	Chironomidae
			3	Tipulidae
			3	*Tricorythodes*
			2	Baetidae
			2	Hydropsychidae
			1	Ephemeroptera
Mottled Sculpin	89	9.7	13	Chironomidae
			6	Hydropsychidae
				Fish Skeleton
Mottled Sculpin	90	9.6	10	Chironomidae-head capsules
			5	Hydropsychidae

APPENDIX D-17-17 (Continued)

Species	Length (mm)	Weight (gm)	#	Food Items
Mottled Sculpin	110	20.5	25	Chironomidae
			2	Chironomidae pupae
			8	Hydropsychidae
			2	Pyralidae
			3	Ephemeroptera
Station 31, Replicate 1, 9/9/75				
Mountain Whitefish	123	17.2	14	Chironomidae
			35	Hydropsychidae
			7	Ephemeroptera
			1	*Tricorythodes*
Station 27, Replicate 2, 9/5/75				
Flannelmouth Sucker	476	832	51	Chironomidae
			3	Chironomidae pupae
			5	*Hydropsyche*
			5	*Choroterpes*
			1	Heptageniidae
				UDM, Sand, Debris

RBOSP PROGRESS REPORT

APPENDIX D-17-18

RESULTS OF SCALE ANALYSES FOR FLANNELMOUTH SUCKERS, CARP, BROWN TROUT, ROUNDTAIL CHUB, AND MOUNTAIN WHITEFISH, RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST AND AUGUST - SEPTEMBER 1975

APPENDIX D-17-18

RESULTS OF SCALE ANALYSIS FOR FLANNELMOUTH SUCKERS, CARP, BROWN TROUT, ROUNDTAIL CHUB, AND MOUNTAIN WHITEFISH, RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST AND AUGUST - SEPTEMBER 1975

Flannelmouth Sucker

Length (mm)	Weight (gm)	Age Class
74	3.8	0
177	46.7	2
104	9.8	1
97	7.9	1
92	6.4	1
92	6.7	1
96	7.6	1
92	6.4	1
92	6.3	1
98	7.8	1
96	7.2	1
93	6.5	1
96	7.2	1
86	6.0	1
90	6.4	1
187	64.5	2
109	13.9	1
96	8.2	0
111	13.2	1
170	41.8	3
126	17.1	1
131	20.4	1
110	11.1	1
55	1.4	0
113	14.2	1
100	9.1	1
103	9.0	1
280	184	3
242	122	3
284	205	3
231	113	3
311	251	3
312	243	4
283	196	3
159	35.7	2
138	25.8	2
107	13.0	1
247	105	3
255	115	3
215	70	2

APPENDIX D-17-18 (Continued)

Length (mm)	Weight (gm)	Age Class
179	35	2
125	15	2
232	110	3
234	100	3
289	235	3
306	215	3
293	205	3
256	115	3
308	228	4
286	175	3
198	75	3
242	145	3
314	250	3
225	105	2
Carp		
80	9.6	0
66	4.5	1
64	4.9	1
76	7.1	1
68	4.8	1
67	5.4	1
85	10.5	0
70	5.4	1
72	5.8	2
69	5.7	0
61	3.8	0
66	4.6	1
Brown Trout		
97	9.9	1
Rountail Chub		
272	181	3
Mountain Whitefish		
119	15.7	0
123	17.2	0
118	15.0	0
121	17.5	0
121	18.0	0
124	17.2	0

2.4.9 Springs & Seepages

2.4.10 Hydrology

2.4.11 Miscellaneous

2.4.9 Springs and Seepages

2.4.9.1 Objectives

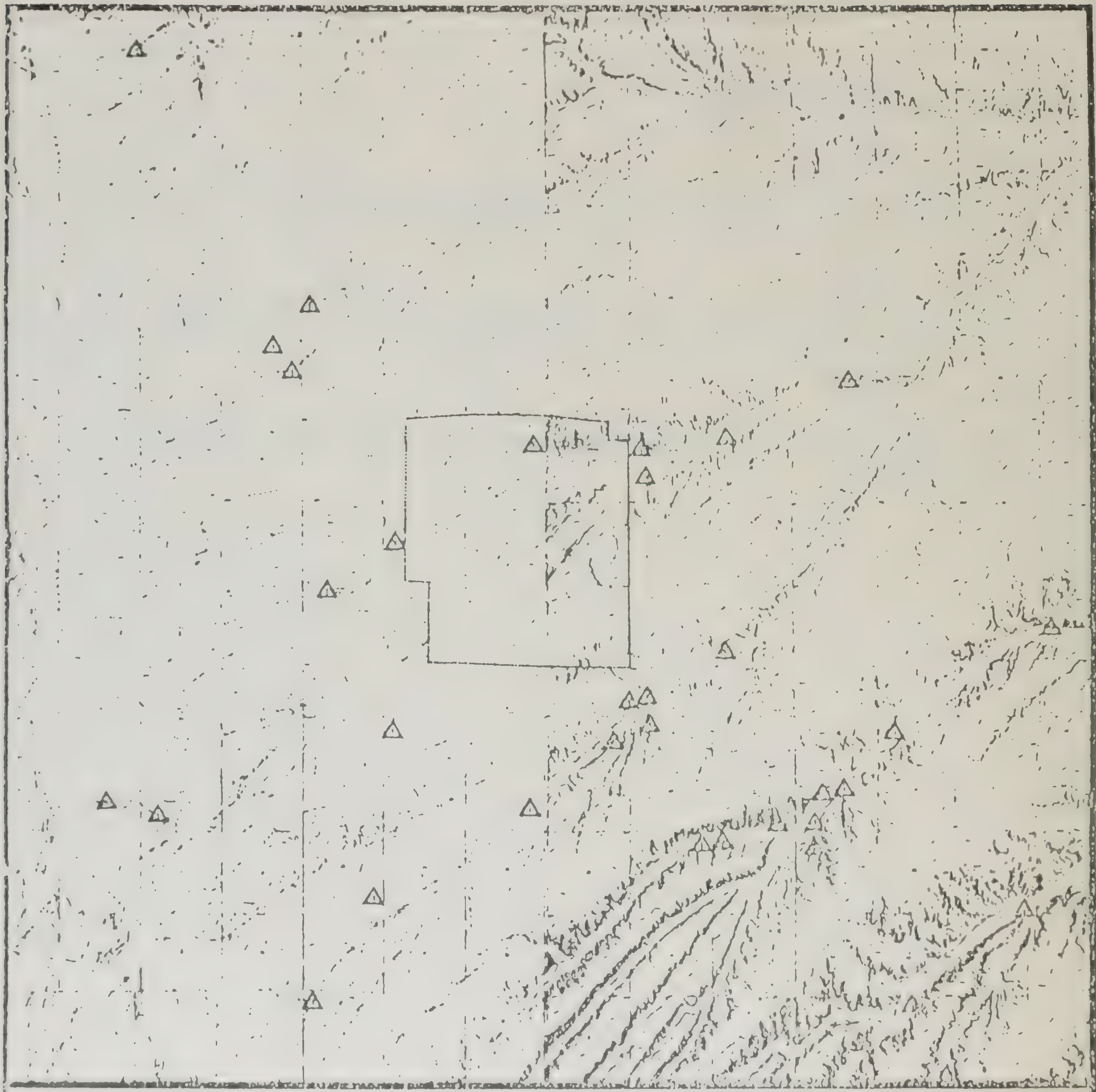
No change in objectives has occurred since Progress Report 3. See section 2.4.9 of Progress Report 3 for specific objectives.

2.4.9.2 Methods

No change in methods has occurred since Progress Report 3. See section 2.4.9 of Progress Report 3 for specific methods.

2.4.9.3 Results

Approximate locations of springs and seepages on or near Tract C-a are shown on Figure 2.4-2.



ENVIRONMENTAL
STUDIES FOR THE
RIO BLANCO OIL SHALE PROJECT

TRACT C-a

LIMNETICS, INC.
Denver, Colorado

5/75

SPRING & SEEPAGE LOCATIONS

△ springs and seepages as of 5/75

Figure 2.4-2

2.4.10 Hydrology

2.4.11 Miscellaneous

2.4.10 Hydrology

2.4.10.1 Objectives

The objective of this segment of the aquatic program is to measure the approximate stream velocites at each site at the time of sample collection to assist in characterizing the existing aquatic habitat.

2.4.10.2 Methods

Stream velocity is measured at each sampling site with Gurley flowmeters or an equivalent device.

2.4.10.3 Results

The approximate stream velocities during the July - August and August - September sampling periods are presented in Appendices D-18-1 and D-18-2.

2.4.10 - Hydrology Data

APPENDIX D-18-1

STREAM FLOW
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX D-18-1

STREAM FLOW, RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975 (Results are expressed in feet per second and, where appropriate, are give for bank side and point of maximum flow.)[1]

Station	Flow (ft/sec) s	m
1		0.4
2		1.3
3		1.3
4		1.5
5		0.4
7		1.5
8	1.7	2.0
9		2.1
13		2.0
14		0.0
15		0.8
17		0.4
18		0.8
19		1.8
20		1.4
21		0.8
22		0.7
23	1.0	2.9
24	2.4	2.2
25	2.8	2.9
26	1.9	2.9
27	0.4	1.2
28	1.0	1.3
29	2.1	3.1
30	2.7	3.1
31	2.4	3.1
32	1.7	2.9
33	1.0	1.8
34	1.0	1.7
35	1.7	2.9

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[1] Stations 6, 10-12 and 16 were dry at the time of sampling.

RBOSP PROGRESS REPO

APPENDIX D-18-2

STREAM FLOW, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

[illegible]

APPENDIX D-18-2

STREAM FLOW, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975 (Results are expressed in feet per second and, where appropriate, are given for bank side and point of maximum flow.)[1]

Station	Flow (ft/sec) s m
1	<0.1
2	0.9
3	1.3
4	2.0
5	0.9
7	2.0
8	1.3
9	1.9
12	1.3
13	1.1
14	1.0
17	0.0
19	1.2
20	0.7
21	1.2
22	1.5
23	1.0;1.9
23	0.9;1.6
25	2.6;3.3
26	2.7;2.3
27	0.1;0.9
28	0.2;1.2
29	2.3;2.5
30	1.2;2.5
31	2.3;2.3
32	2.7;2.3
33	0.5;0.5
34	1.4;3.6
35	1.7;5.2

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[1] Stations 6, 10-11, 15-16 and 18 were dry at the time of sampling.

2.4.11 Miscellaneous

2.4.11 Miscellaneous Studies

2.4.11.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.11 of Progress Report 3 for specific objectives.

2.4.11.2 Methods

No change in methods has occurred since Progress Report 3. See section 2.4.11 of Progress Report 3 for parameters included in these studies. The frequency of collection of the various parameters included in these investigations and the list of parameters are presented in Table 2.4-3.

2.4.11.3 Results

Data from the August - September sampling period are included in Appendices D-19-1 through D-19-5.

Table 2.4-3. List of Parameters and Sampling Frequency for Water Quality Investigations.

Semi-Monthly	Semi-Monthly[1]
Element or Compound	Element or Compound
Barium	Arsenic
Boron	Cadmium
Calcium	Lead
Chromium	Manganese
Copper	Mercury
Fluoride	Phosphorus
Iron	Cyanide
Lithium	Sulfide
Magnesium	
Potassium	
Selenium	
Silicon	
Sodium	
Sulfate	
Zinc	
Ammonia	
Bicarbonate	
Carbonate	
Chloride	
Color	
Dissolved solids	
Kjeldahl nitrogen	
Nitrate	
Nitrite	
Odor	
Oil and Grease	
Turbidity	

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[1] Subject to review

Table 2.4-3 (Continued)

Quarterly		
Organics	Radioactivity	Element or Compound
Total organic C • if < 10mg/l no additional analysis • if > 10mg/l then, Dissolved organic C Suspended organic C Phenols Sulfate Nitrogen Chemical oxygen demand Fecal coliform Pesticides	Gross Alpha > 4 picocuries/l analyze for RA 226 Gross Beta • if > 100 picocuries/l analyze for Th 230 and Natural Uranium	Complete Element Scan

2.4.11 - Miscellaneous Studies Data

RBOSP PROGRESS REPORT

APPENDIX D-19-1

WATER QUALITY DATA, SPECTROGRAPHIC ELEMENT SCAN, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-19-1

WATER QUALITY DATA. SPECTROGRAPHIC ELEMENT SCAN RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975 (Data are expressed in µg/g and are based upon dissolved solids.)

Parameter	Station Replicate			
	25		34	
	A	B	A	B
Aluminum (Al)	0.01	0.01	0.02	0.02
Antimony (Sb)	ND	ND	ND	ND
Arsenic (As)	ND	ND	ND	ND
Barium (Ba)	0.017	0.017	0.017	0.017
Beryllium (Be)	ND	ND	ND	ND
Bismuth (Bi)	ND	ND	ND	ND
Boron (B)	0.02	0.02	0.02	0.02
Cadmium (Cd)	ND	ND	ND	ND
Calcium (Ca)	55.0	53.6	53	54
Chromium (Cr)	ND	ND	ND	ND
Cobolt (Co)	ND	ND	ND	ND
Copper (Cu)	0.003	0.003	0.003	0.003
Germanium (Ge)	ND	ND	ND	ND
Iron (Fe)	0.008	0.013	0.013	0.013
Lead (Pb)	ND	ND	ND	ND
Magnesium (Mg)	23	22.6	22.6	22.7
Manganese (Mn)	ND	ND	ND	ND
Molybdenum (Mo)	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND
Potassium (K)	6.4	6.2	6.4	6.4
Silica (Si)	0.05	0.09	0.09	0.09
Sodium (Na)	192	186	185	187
Strontium (Sr)	2.4	2.4	2.4	3.2
Tellurium (Te)	ND	ND	ND	ND
Tin (Sn)	ND	ND	ND	ND
Titanium (Ti)	ND	ND	ND	ND
Vanadium (V)	ND	ND	ND	ND
Wolfram (W)	ND	ND	ND	ND
Zirconium (Zr)	ND	ND	ND	ND

ND = Not Detected

RBOSP PROGRESS REPC

APPENDIX D-19-2

WATER QUALITY DATA, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-19-2

WATER QUALITY DATA. RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1975. (Data are expressed in mg/l unless otherwise noted.)

PARAMETER	STATION REPLICATE 25		34	
	A	B	A	B
Arsenic (As), Diss	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba), Diss	< 0.02	< 0.10	< 0.01	< 0.01
Boron (Bo), Diss	< 0.50	< 0.50	< 0.50	< 0.50
Cadmium (Cd), Diss	< 0.01	< 0.01	< 0.01	< 0.01
Carbon (C) Organic	< 1	1	< 1	< 1
Carbon (C) Organic Diss	< 2	1	< 1	< 1
Carbon (C) Organic Suspended	< 1	< 1	< 1	< 1
Chemical Oxygen Demand (O_2)	10	10	9	10
Chromium (Cr) Total Diss	< 0.03	< 0.03	< 0.03	< 0.03
Copper (Cu), Diss	< 0.02	< 0.02	< 0.02	< 0.02
Cyanide (Cn), Total	< 0.001	< 0.001	< 0.001	< 0.001
Fluoride (F), Diss	0.40	0.40	0.44	0.44
Iron (Fe), Total Diss	0.04	0.03	< 0.02	< 0.02
Lead (Pb) Diss	< 0.05	< 0.05	< 0.05	< 0.05
Lithium (Li) Diss	< 0.02	< 0.02	< 0.02	< 0.02
Manganise (Mn), Diss	< 0.02	< 0.02	< 0.02	< 0.02
Mercury (Hg), Diss (μg/l)	0.3	0.02	< 0.2	< 0.2
Nitrogen (N), Organic	0.27	0.34	0.41	0.18
Phosphorus (P), Total Diss	0.01	0.02	0.01	0.03
Phenolic compounds (Phenol)	0.006	0.006	0.006	
Selenium (Se), Diss	< 0.01	< 0.01	< 0.01	< 0.01
Solvent extract (Oil)	< 0.003	< 0.003	< 0.003	< 0.003
Sulfate (S), Diss	50	52	57	58
Sulfide (S), Diss	< 0.02	< 0.02	< 0.02	< 0.02
Sulfur (S), Organic	3	7	4	5
Zinc (Zn), Diss	< 0.02	< 0.02	< 0.02	< 0.02

Diss = Dissolved

RBOSP PROGRESS REPOR

APPENDIX D-19-3

FECAL COLIFORM BACTERIAL ANALYSES, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

RBOSP PROJECT LIBRARY

APPENDIX D-19-3

FECAL COLIFORM BACTERIAL ANALYSES. RBOSP AQUATIC RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

Station Replicate	Colonies/100 ml
25-A	12
25-B	13
34-A	17
34-B	25

RBOSP PROGRESS REPORT

APPENDIX D-19-4

WATER QUALITY DATA, SELECTED PESTICIDE ANALYSES, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-19-4

WATER QUALITY DATA, SELECTED PESTICIDE ANALYSES. RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1975. (Data are expressed in mg/l.)

Parameter	Station Replicate			
	25		34	
	A	B	A	B
Lindane	<0.0001	<0.0001	<0.0001	<0.0001
Malathion	<0.0005	<0.0005	<0.0005	<0.0005
Parathion	<0.0001	<0.0001	<0.0001	<0.0001
Toxaphene	<0.002	<0.002	<0.002	<0.002

APPENDIX D-19-5

WATER QUALITY DATA, RADIOLOGICAL ANALYSES, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975.

APPENDIX D-19-5

WATER QUALITY DATA. RADIOLOGICAL ANALYSES, RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1975. (Data are expressed in pCi/D).

	Station Replicate			
	25		34	
	A	B	A	B
Gross Alpha (α)	< 0.56	< 0.64	< 0.52	< 0.54
Gross (β)	3.4 ± 0.8	2.6 ± 0.8	3.6 ± 0.9	3.6 ± 0.9

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